

*The*  
**CHEMIST AND DRUGGIST**

for RETAILER - WHOLESALE - MANUFACTURER

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3317  
CXL

SEPTEMBER 4, 1943

Annual Subscription (with  
Diary) 25/- Single Copies 9d.

*Torch Brand*

**MALT  
& OIL**



*Adequate supplies  
are available*

**ALLEN & HANBURYS LIMITED, LONDON, E.2**

PHONE: BISHOPSGATE 3201 (12 LINES). WIRES: "GREENBURYS, BETH, LONDON"

# *Parke, Davis & Co.*

ask for the indulgence  
of pharmacists towards  
the firm's endeavours  
to secure, on the . . .  
basis of their customers'  
1939 orders, a fair . . .  
distribution of . . .  
their own officially  
restricted stocks . . .



50 BEAK STREET, LONDON, W.1

*Inc. U.S.A. Liability Ltd.*

Now 'Elasto'—It Sells on Sight!

It's advertised as a Chemist's Line

# Elasto

REGISTERED

The Wonder Tablet

Read What Users of 'Elasto' Say:—

Original letters have been seen by a representative of "The Chemist and Druggist")

## Varicose Veins

"As a sufferer of varicose veins, I must state that before using 'Elasto' I was tortured with pain and aching legs. After taking a month's supply of 'Elasto' I remark with emphasis that my feeling of tiredness and aching has vanished. All sufferers of varicose veins I certainly recommend 'Elasto'—they are a boon.

11180.

— R. P.

mediate relief, and, although I was relieved of the pains and inconvenience, I have never ceased to take them regularly, as I have found them to act as a tonic as well, giving me energy that I previously lacked. I have recommended them to many others since.

AT 11108.

— F. T.

## Rheumatism

"I may say that I have found 'Elasto' a wonderful help. For years I suffered with rheumatism in my feet and legs, and at times found it difficult to get about. 'Elasto,' however, afforded me im-

## Varicose Ulcers

"I have great pleasure in writing to say my legs are quite better and I cannot praise your 'Elasto' enough. I had suffered agonies with varicose ulcers; in fact I thought I should never get them better, but, thanks to 'Elasto,' my legs are completely cured."

AH 11263.

— E. H.

THESE generous acknowledgements are an indication of the solid goodwill behind Elasto. Thousands of users, all over the country, are daily telling their friends of similar experiences with this fine remedy.

Recommend 'Elasto'—and a satisfied customer will recommend You!

A SOUND LINE  
A GENEROUS PROFIT

Retail Price 5/- per pkt.  
\* Including purchase tax.

Wholesale 42/- per doz.  
\* Including purchase tax.

A FEW SHOWCARDS STILL AVAILABLE

**PATA**

THE NEW ERA TREATMENT CO., LTD.

DEPT. R

CIL HOUSE, HOLBORN VIADUCT, LONDON, E.C.1



# Equal to every test-

The achievement of the highest standard of purity, reliability and efficacy is obtained only by the most careful supervision throughout the process of manufacture. To this scientific control the fame of Beecham's Pills and Beecham's Powders may justly be ascribed—thereby setting the seal upon the intrinsic worth of these famous home medicines.



# Beecham's Pills AND Beecham's Powder

BEECHAM'S PILLS LTD., ST. HELENS, LANCs.



*The practical experience of sheep farmers  
is increasing the demand for*

## **EVANS** *Lamb dysentery* **VACCINE**

Inoculation of ewes in the autumn with Evans Lamb Dysentery Vaccine reduces losses amongst lambs in the spring. Low cost, simple treatment, consistent advertising and—above all—the practical experience of the sheep farmer, all point to a still wider demand this autumn.

### **EVANS LAMB DYSENTERY WHOLE CULTURE VACCINE**

Dosage 5 c.c.

				Retail	Wholesale
Containers of	50 c.c.	-	-	3/9	30/-
"	" 250 c.c.	-	-	13/4	106/8

### **EVANS SONS LESCHER & WEBB LTD**

Liverpool and London



# REVISED PACKINGS

## FOR

### BOB MARTIN

# PREPARATIONS

---

GOVERNMENT ORDER S.R. & O. 1366

---

The above regulation has made it necessary for us to withdraw the 21-size packages of Bob Martin's Condition Powder Tablets and of 'Tibs.' To avoid delay, all orders for 21's will be filled with the *new* large-size packings as below. The ratio of value remains unchanged. Here are the current packings:

#### CONDITION POWDER TABLETS

Packets of 9, 7d. (as before)  
Cartons of 36, 1/11 (replacing  
the carton of 21 at 1/1½)

#### 'TIBS'—FOR CATS

Packets of 9, 7d. (as before)  
Cartons of 27, 1/6 (replacing  
the carton of 21 at 1/1½)



BOB MARTIN LTD. SOUTHPORT LANCs.

**ESTABLISHED 1878**  
**FOR**  
**LABELS**  
**CARTONS**  
**ENVELOPES**  
**AND EVERY DESCRIPTION**  
*of*  
**MEDICAL PRINTING**  
  
*Write to*  
**ALF. HARRISON & SONS, LTD.**  
**THE CHEMISTS' PRINTERS**  
**BURLEY ROAD**  
**LEEDS, 4**

## INDEX TO ADVERTISERS

*The fact that goods made of Raw materials in short supply owing to war conditions are advertised in this paper should not be taken as an indication that they are necessarily available for export.*

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Bell, John, Hills & Lucas, Ltd.	Leader Page
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(continued overleaf)



## The Natural Calcium Compound

'Calfos,' which is derived from natural sources, supplies calcium and phosphorus in a palatable, concentrated form which ensures absorption in the correct physiological ratio.

*Widely advertised to the medical profession*

**CALFOS LTD.**  
IMPERIAL HOUSE,  
KINGSWAY, W.C.2  
  
Temple Bar 3629

### TRADE & RETAIL PRICES

	Face Price Exclusive of Tax	TRADE PRICE per dozen	Purchase Tax per dozen	Minimum Retail Price including Pur. Tax
Box of 50 tablets	2/6	20/-	3/4	2/9½
Box of 120 tablets	4/9	38/-	6/4	5/3½

Special terms are available for hospital packs

DISPLAY CARD ON REQUEST

ST 2



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# Disinfectants

to Hospitals, Public Institutions, Local Councils, &  
REMEMBER that

**BURT, BOULTON & HAYWOOD LTD.** Managers  
the **PRINCE REGENT TAR COMPANY, LTD**

give you special terms.

Carbolic Disinfecting Fluids containing 10% to 80% Tar Acids.

White Disinfecting Fluids—miscible in salt, fresh or brackish water. Co-efficients 18/20, 22/24.

Lysol B.P. Quality.

Pink Disinfecting Powders.

Carbolic Sheep Dips, approved by the Ministry of Agriculture under the Sheep Scab order.

Carbolic Disinfecting Fluids, Rideal Walker Co-efficients 2 to 20.

Liquid Carbolic and Cresyl c Acid, Pale, 99/100%

Formaldehyde (Formalin) 40% Solution.

Carbolic Weed Killer, etc.

Tar Acids and Rideal Walker Co-efficiency guaranteed. May be sold by Chemists and Druggists under own name. Special Disinfectant Fluids approved by the Ministry of Agriculture under the "Diseases of Animals Acts." May be packed and sold by Chemists under own name.

SAMPLES AND PRICES ON APPLICATION TO

**PRINCE REGENT TAR COMPANY, LTD**

(Managers: **BURT, BOULTON & HAYWOOD, LTD.**)

**BRETENHAM HOUSE, WELLINGTON STREET, STRAND, LONDON, W.C.**

Phone: Temple Bar 5801 (5 lines)

Telegrams: "Burboul, Rand, London"



The Name the  
public associates  
with Quality  
after 32 years of  
trial



UNITED CHEMISTS ASSOCIATION LIMITED  
UCAL WORKS, CHELTENHAM

# The 'Clinbritic' Vaccine Bottle

Patent No. 492200

MADE IN WOOD'S ALKALI FREE AMBER or WHITE GLASS

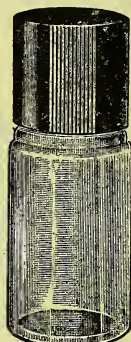


Assembly Details



A new type of Multiple injection "vaccine" bottle which possesses several points of interest and offers a very near approach to the ideal. No Wiring is necessary, and there is no distortion or bursting of the rubber cap even at pressures up to 50 lbs.

The india rubber vaccine cap, of special design, is protected by a screw bakelite cap, and provision is made for maintaining the sterility of the outside surface of the vaccine cap. No manipulation whatever is required after sterilization.



Completed

Samples, Prices and Full Details on Request

**Britton, Malcolm & Waymark, Ltd.**  
38 Southwark Bridge Road, London, S.E.1

## Available for Immediate Delivery

### PILENTA TOILET SOAP.

Chemists will be glad to hear that we can offer immediate delivery of limited reasonable quantities of Pilenta Toilet Soap.

This de luxe Soap has always held a high place in the regard of the discriminating.

Full 3-oz. Tablets, 1/3½d. retail, including purchase tax. Wholesale, 10/- per dozen, plus ¾ tax.

### CLYNOL BERRIES FOR OBESITY.

We are glad to announce that we have now sufficient stocks of Clynol Berries to last with care for some time to come. We regret that circumstances beyond our control have kept us out of stock for so long.

Prices: WHOLESALE, 32/- per dozen, plus 5/4 tax. RETAIL 4/5½d.

(Both on the **PATA** List)

It would be wise not to delay in placing your order.

**DEARBORN (1923) LTD.**

Hellidon House, Hellidon, Nr. Daventry, Northants



# START NOW!

## to sell **BRICCAS** Vanishing Cream

for loveliness and charm delicately Perfumed. Only the finest materials are used in this high grade cream. You can recommend it, for you know what's in it.



## **BRICCAS** Fragrant Tonic Hair Cream

Makes the hair behave. Contains the purest oils and other materials to ensure a healthy, handsome growth of hair. No gum.

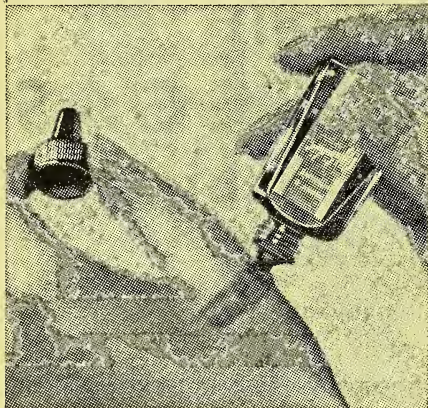
Send stamp for details of Briccass "easy to follow" formulae. No special equipment necessary. All materials available. Prompt delivery.

# BRICCAS LIMITED

CAVENDISH PLACE, LONDON, W.1

Telephone: LANGHAM 1183

## THE ADVANCED WAY TO APPLY IODINE



HERE is a perfect way to apply iodine. Practical, simple—requiring no brush or cotton wool to absorb or waste the iodine. Designed for the pocket, handbag or First-Aid kit, the slim bottle has a fitted fountain-brush head (Patented) with a controlled feed ready for instant and accurate application.

This sensible and ingenious solution of a pack problem fulfils a wartime need and cannot fail to stimulate the sale of a product already in steady demand

LEAK-PROOF SPILL-PROOF  
British Patent No. 494991



MINER'S

*Applyiodine*  
TRADE MARK

PLEASE NOTE NEW PRICES:

9d. SIZE... 6/- per doz. ... plus 1/- per doz. purchase tax.  
1/6 SIZE... 12/- per doz. ... plus 2/- per doz. purchase tax.

CASH DISCOUNT:

5% on half-gross orders. 10% on gross orders

From your regular wholesaler or direct from  
HENRY C. MINER LTD., 7 Stanhope Terrace, W.2.

Protected by the P. A. T. A.

## Dentesive

THE NEW BETTER TYPE FIXATIVE

"Squeezed from a tube"

HOLDS FALSE  
TEETH FIRM



HOLDS FIRMER AND THREE TIMES LONGER  
THAN ORDINARY FIXATIVES

Price 1/3d. per tube

Sole Distributors: DON S. MOMAND LTD.  
10/15 CHITTY STREET, LONDON, W.1

*Always Sells!*

THE LIVE LINE  
WITHOUT A  
DEAD SEASON-

**Cuticura**  
OINTMENT

223

- Cuticura Ointment—and equally popular Cuticura Soap, Cuticura Talcum Powder and Cuticura Shaving Stick—are in demand from January to December. How are your stocks.





# Trust

## Complexion Powder & Lipstick

6 shades packed in colourful boxes and powder-proof bags. RACHELLE, NATURAL, PEACH, OCHRE ROSE, ROSETAN, CREOLE. Your Orders for this Nationally Advertised Complexion Powder can be executed promptly.



**4/- & 1/4**  
INCLUDING TAX



Orders for Lipstick Refills accepted for delivery as and when available under quota restrictions.

All enquiries to—  
**ANDERSON & REEVES LTD**  
157/161 REGENT STREET · W·1 · REG·1965



*For the best  
in*

**MODERN  
PHARMACY**

**THORNTON & ROSS**  
*Manufacturing Chemists*  
LINTHWAITE · HUDDERSFIELD

## CURIOSITIES OF ANCIENT PHARMACY

No. 26

### FARM-ACY!

Even in the reign of James I the Royal Physician could prescribe a Balsam of Bats for hypochondria! It contained bats,adders, new-born dogs, earthworms, hog's grease and the thigh bone of an ox.

Yet the same gentleman influenced the preparation of the first London Pharmacopœia!

T.R.118

**MILLAMALT** *The* **VITAMIN  
MALT FOOD**

With Guaranteed Complement of Vitamins A, B, C &  
*Sole Manufacturers.*  
JEFFREYS, MILLER & Co. Ltd. Leyland Mills, WIGAN, London Dept. 19 Brookside Road, N.

### AFTER ENEMY ACTION—BE SURE OF A PURE WATER SUPPLY

by installing the MAWSON FILTER. Not only are germs removed, but poisonous war gases also, thereby enabling the Chemist to carry out his dispensing, first aid and other A.R.P. work.

Write for descriptive list to:—

It pays to install a MAWSON FILTER

**The MAWSON FILTER CO. 55 Grainger Street, Newcastle-on-Tyne**

★ *THOSE SPECIALISTS WHO MAKE THEIR OWN COSMETICS*

HAVE THE CHOICE  
OF



**DIFFERENT PERFUME COMPOSITIONS AT ALL PRICES**

**FIELD & CO (AROMATICS) LTD**

Mount Pleasant, ALPERTON, MIDDLESEX



Samples from  
Phone. Wembley 3536/7

TECHNICAL  
ADVICE  
FREE

# INTERNATIONAL CHEM. CO. LD.

## REVISED CONTENTS OF STANDARD PARCELS

**OWING** to shortage of labour and packing materials (and in order to comply with the Government's demand for utmost economy), we have been compelled to restrict the direct supply of our four main products to pre-packed parcels only. To meet the requests of a number of our customers, we have recently revised our original parcels to the contents shown below. Retailers requiring assortments other than these can obtain from their Wholesalers.

The minimum for a direct order remains at £5, which can be made up by parcel 'A'; or by any two of parcels 'B' to 'O'; or by any one of 'B' to 'O' plus a selection of our other preparations, such as Alkia Saltrates, Bisuroids, Nemakol and Nemolin. Toilet lines may also be included to the value of your quota.

Co-operation allowances: On orders of £5.....7½%    £10.....10%

<b>A</b>	1 doz. 1/5 Bismag Powder	...	12	0
	1/2 " 2/10 " "	...	12	0
	2 " 1/5 " Tablets	...	1	4
	1 " 2/10 " "	...	1	4
	1 " 1/9 Pineate Honey Cough-Syrup	...	13	9
	1 " 2/3 Limestone Phosphate	...	18	0
	1 " 1/5 Freezone Corn Remover	...	11	3
			£5	15
	Purchase Tax on all goods and on bonus	...	1	1
			£6	16

<b>B</b>	3 doz. 1/5 Bismag Powder	...	1	16
	1 " 2/10 " "	...	1	4
			£3	0
	Purchase Tax on above and on bonus	...	11	8
			£3	11

<b>C</b>	3 doz. 1/5 Bismag Tablets	...	1	16
	1 " 2/10 " "	...	1	4
			£3	0
	Purchase Tax on above and on bonus	...	11	8
			£3	11

<b>D</b>	1 doz. 1/5 Bismag Powder	...	12	0
	2 " 1/5 " Tablets	...	1	4
	1 " 2/10 " "	...	1	4
			£3	0
	Purchase Tax on above and on bonus	...	11	8
			£3	11

<b>E</b>	1 doz. 1/5 Bismag Powder	...	12	0
	1/2 " 2/10 " "	...	12	0
	2 " 1/5 " Tablets	...	1	4
	1 " 2/10 " "	...	12	0
			£3	0
	Purchase Tax on above and on bonus	...	11	8
			£3	11

<b>F</b>	1 doz. 2/10 Bismag Powder	...	1	4
	1 1/2 " 2/10 " Tablets	...	1	16
			£3	0
	Purchase Tax on above and on bonus	...	11	8
			£3	11

<b>H</b>	1 1/2 doz. 1/5 Bismag Powder	...	18	0
	3 " 1/5 " Tablets	...	1	16
			£2	14
	Purchase Tax on above and on bonus	...	10	6
			£3	4

<b>J</b>	2 doz. 1/5 Freezone Corn Remover	...	1	2
	1 " 2/3 Limestone Phosphate	...	18	0
	1 " 1/9 Pineate Honey Cough-Syrup	...	13	9
			£2	14
	Purchase Tax	...	9	0
			£3	3

**K** This parcel containing 'Pineate' Honey Cough Syrup suspended during the summer months.

<b>L</b>	6 doz. 1/5 Freezone Corn Remover	...	3	7
	Purchase Tax	...	11	3
			£3	18

<b>N</b>	2 doz. 1/5 Freezone Corn Remover	...	1	2
	2 " 1/9 Pineate Honey Cough-Syrup	...	1	7
			£2	10
	Purchase Tax	...	8	4
			£2	18

<b>O</b>	3 doz. 2/3 Limestone Phosphate	...	2	14
	Purchase Tax	...	9	0
			£3	3

Above consumer prices include Purchase Tax

**BONUS TERMS:** 14 to the dozen on 'Bisurated' Magnesia Powder and Tablets in return for fourteen days' window display. 'Bisurated' Magnesia Powder—Bonus in Mint Powder. 'Bisurated' Magnesia Tablets—Bonus in Tablets.

All goods sent Carriage Paid in returnable boxes

**CLIFTON HOUSE, EUSTON ROAD, LONDON, N.W.1**



# 'SUPER SHAVE' for 'Super' Sales

and for the  
perfect BRUSHLESS  
shave with  
after-shaving  
freshness!



RETAILS AT  
1/10 4 oz. Jar

Terms on application

LONDON PHARMACEUTICAL LABORATORIES, LTD. 37 BEDFORD SQUARE, LONDON, W.C.1

'SUPER SHAVE,' the last word brushless shaving creams is fast becoming first favourite. . . . Displ and recommend 'SUPER SHAV and see how it speeds up sales well as speeding up shaving.

'SUPER SHAVE' represents SUP VALUE plus QUALITY to merit yo confident recommendation. Stock NOW for steady, satisfactory sale

BRUSHLESS

# SUPER SHAVE

SOAPLESS

STILL THE BEST REMEDY FOR.

# ASTHMA

**Dr. SINGHA  
ASTHMA  
TABLETS**

A LONDON CHEMIST writes:  
"I am delighted to recommend Dr. Singha Tablets to my Asthma-suffering customers, as I am convinced there is no remedy to equal it."

Prices: 1/6, 5/-, 12/-, 20/-  
(exclusive of Purchase Tax)

THE DR. SINGHA CO., LTD.  
CAERNARVON  
NORTH WALES

# STAINED!



For the "professional sty cleaning of DAINTY FABRIC SUITS, HATS, SAT AND BROCADE SHO GLOVES, SCARVES, TI CARPETS, also for W DOWS, MIRRORS, BAT PAINTWORK, etc., Solitaire Dry Cleaner

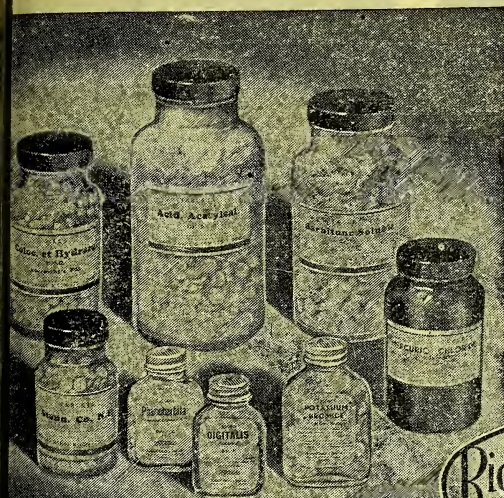
Solitaire Dry Cleaner perfection itself for cleaning of all fabrics, matter how dainty. chemical bleaching acti Leaves no "ring." Non-flammable. Different fr other solvents—clea by the action millions of th globules whi gently can away all di

Sold in bottles price 1/9 at Grocers, Chemists, Stores, etc.

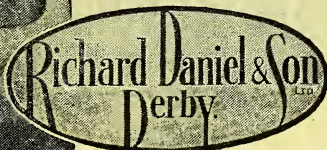
# SOLITAIRE DRY CLEANER

FURMOTO CHEMICAL CO. (FACTORS) LTD.  
1-3 Brixton Road, London, S.W.9





MANUFACTURERS OF  
**TABLETS**  
AND  
**PILLS**  
For the  
Pharmaceutical  
Trade



Established 1860

'Phone: Derby 4266-7-8. 'Grams: Danla Derby

# VIKELP

Nutritional Food Tonic

## SUPPLIES

There are adequate supplies of VIKELP Mineral-Vitamin tablets in all sizes—available for YOU. Please send your orders for VIKELP to Messrs. J. C. Gambles & Co. Ltd., 211/215 Blackfriars Road, S.E.1, or through your regular wholesaler.

Size	Contents (tablets)	Retail Price including Purchase Tax	Price per dozen
1	40	2/-	15/9
2	110	4/-	31/6
3	250	7/6	60/9
4	750	19/6	157/6

You can recommend VIKELP with every confidence. It is Genuine; it is Ethical; it is **PATA**

HEALTH PRODUCTS LABORATORIES LTD.  
128-134 Baker Street, London, W.1

# CONTROL OF HEAD LICE

Nits and Head Lice can now be dealt with quickly and economically without unpleasant evidence of treatment.

An N.W.F. formula now being used extensively by Public Health Authorities.

**'Semprolia'**  
BRAND

**MEDICATED (LETHANE) HAIR OIL N.W.F.**

Insecticide for control of Nits and Head Lice



**'SEMPROLIA' MEDICATED (LETHANE) HAIR OIL IS IN URGENT AND RAPIDLY INCREASING DEMAND**

Retail (2-oz.) 1/1½d. including P.T. List 8/- doz  
Packed in 2-dozen outers.

STEMCO LTD., 128, Albert Street, London, N.W.1  
Agents in Eire.—May Roberts (Ireland) Limited, Dublin.

# "OXOID"

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THE high standard of advertising which characterises Rendell's Products is in keeping with their excellence of manufacture. The pharmacist who displays Rendell's Products increases prestige and turnover alike. Keep ample stocks of Nurse Drew's Booklet, "Hygiene for Women," which thousands of women are demanding daily.

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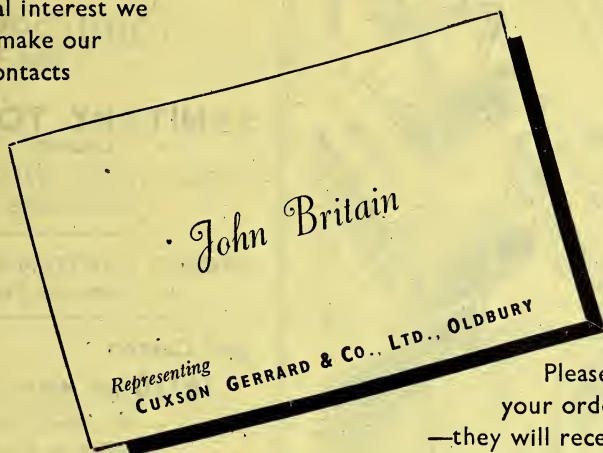
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—they will receive every  
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## ELASTIC HOSIERY

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For special garments to measure  
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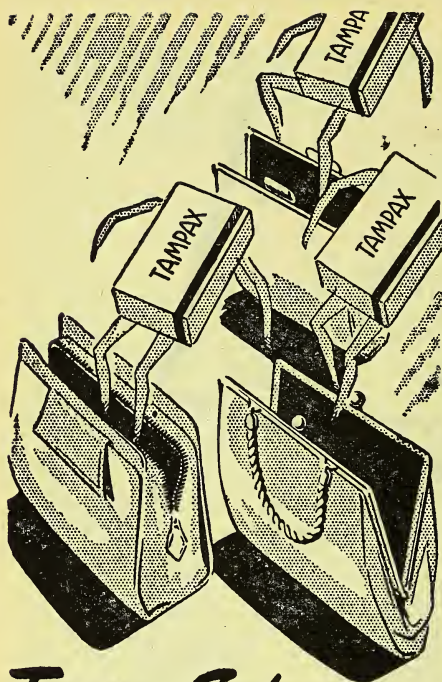
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Personal recommendations and consistent advertising are bringing new business for Tampax every week. And new Tampax business means two things—both acceptable to the dealer in these days. Every sale starts a steady repeat demand. And every customer who comes in for Tampax usually goes out with other purchases as well!

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*Sanesse*  
 No. 2

### **SANITARY TOWELS** (LOOPED)

Made with best White Wool  
 and Gauze

**PACKED 3 DOZEN PACKETS**  
 (12 Towels per Packet)

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**16/10** per dozen Packets

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*“Prophylactics should, under  
 regulations and safeguards, be  
 available at proper Chemists  
 up and down the country”*

*... Parliamentary debate on Venereal  
 Disease Control reported Daily  
 Telegraph, Dec. 16, 1942*

**Our Chemist Customers  
 share in this Control by  
 serving the public with  
 the finest protectives  
 “SELKA”**

★

**SELKA Ltd. 23 Dering St.**  
**London, W.1.** Tel. Mayfair 2412

# What's yours?

Overtiredness is pretty general nowadays. What's your advice when customers ask you to prescribe for it? Every thinking citizen is thankful that our rations are as good as they are. Nevertheless, the public is well aware that the thing that would do them most good is more nourishment — in particular more fats of the right sort. And there's absolutely no reason why they shouldn't have it.

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SevenSeaS Cod Liver Oil is a far richer and more concentrated protective food than butter or eggs. There is no shortage; supplies are now normal and should remain so throughout the winter. There are no sales restrictions; the more you sell, the better for the nation's health.

# We're telling them

SevenSeaS will be publicized to the fullest possible extent this winter. In mid-September advertisements will start reminding the public that SevenSeaS is an extremely nourishing supplementary *food*, just as good for adults as for growing children; that it remedies nervous exhaustion by building up depleted strength reserves and that it is readily available.

Please remember this. Though supplies are normal, transport is not. It is wise to re-order in good time.

*Issued by*

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ST. ANDREW'S DOCK, HULL.



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## SURGICAL DRESSINGS    SANITARY TOWELS

Write **CROSSKILLS' of NORWICH**

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**EXTENSIVE STOCKS**

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# Absorbent Cotton Wools

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The Quality line of Rubber preventives. A thoroughly tested reliable product in superior packs. Recommended by Chemists realising present day need for reliable protection.

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PROMPTLY SUPPLIED

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**BEST QUALITY ONLY**

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(Cotton wool, with loops and non-absorbent back)

Enemas, Teats, Valves, Feeding Bottles, Surgical Dressings, Finger Stalls, Corn Rings, Thermometers, Tooth Combs, Menthol Cones, Wrist Straps, Eye Shades, etc., etc.

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## Electrically-heated Blankets & Pads

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Three-heat or Single-heat

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"Buy any marking stones?"

THE MARKING STONE MAN

"Buy marking stones, marking stones buy,  
Much profit in their use doth lie;  
I've marking stone of colour red,  
Passing good, or else black lead."

SINCE

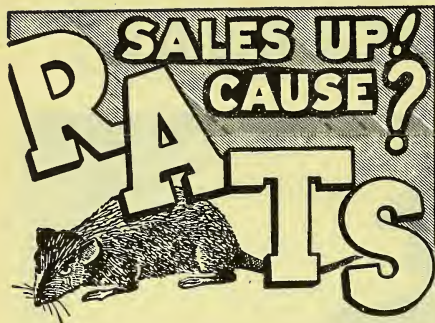
**POTTER & CLARKE LTD**

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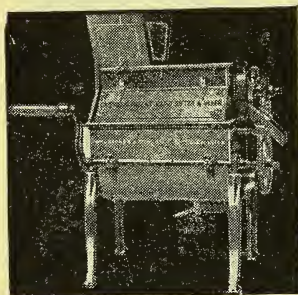
The public are today more alive than ever before to the rat menace and its danger to the country's food supplies. Rodine is a household name for the effective destruction of these pests.

Don't miss any sales of this profitable line—make sure your stocks are ready to meet the increasing demand.

## RODINE RAT POISON

THOMAS HARLEY, LTD., PERTH, SCOTLAND

On the **PATA**



These hand-operated Machines are as accurate as the larger GARDNER models and ensure a true homogeneous mix. Upkeep and working costs are negligible.

for  
SMALL to  
MODERATE  
OUTPUTS,  
*use this*

**GARDNER**  
*Patent 'Rapid'*  
**SIFTER & MIXER**

Wm. Gardner & Sons (Glos.) Ltd., Bristol Rd., Gloucester

## Flyflash kills like lightning

One whiff of FLYFLASH and any insect is as dead as a doornail. The season for starting an offensive against household pests is now on. Do your customers—and yourself—a good turn by recommending FLYFLASH, the lightning Killer for quick sales and repeats.

No danger to humans and domestic animals. Does not harm furniture or fabrics.

**FLYFLASH**  
KILLS FLIES, WASPS,  
MOTH, MOSQUITOES,  
FLEAS, BEETLES, LICE,  
BUGS, ETC.

Price 1/3 for 4 ozs.  
11/3 a dozen. Carriage paid 1 gross and over.  
Send orders NOW

**S. MAW, SON & SONS, LTD.**  
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NEW BARNET



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*Enquiries Solicited*

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BIRTLEY, Co. DURHAM

## DETTOL BRAND OINTMENT HEALING AND ANTISEPTIC

## STOCK JAR LABELS

All usual wordings in this design

**VANISHING CREAM**

VANISHES AND SOOTHES  
AN IDEAL POWDER BASE

*Send for Samples and Prices*

**WILLIAM SESSIONS, Ltd.,** The Ebor Press, York

# a NEW type of INSULIN

**A combination of Insulin and Globin  
(with Zinc) in a clear SOLUTION**

'Wellcome' brand Globin Insulin (with Zinc) is a new type of Insulin developed in the Burroughs Wellcome & Co. Laboratories, Tuckahoe, New York. It has a delayed action which is intermediate in its rate of onset and in its duration between those of unmodified Insulin and Protamine Insulin (with Zinc) Suspension. This feature enables satisfactory control to be maintained in many cases by a single daily injection.

'Wellcome' brand Globin Insulin is a clear, stable solution containing Insulin combined with Globin (a simple protein obtained from blood) and a small percentage of Zinc.

Order a small stock now to meet prescription demand. Further information will be supplied on request.

*Available in one strength only: 80 units per c.c. In bottles containing 5 c.c. Price 5/2*

*'Wellcome'*  
brand

## GLOBALIN INSULIN

(with Zinc)



**BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON**

ASSOCIATED HOUSES:

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# SUBLINGUAL ADMINISTRATION OF THE SEX HORMONES

... in the form of  
**LINGUETS**  
REGD. TRADE MARK

Clinical investigation★ has shown that absorption by the rich capillary network under the tongue is more effective than from the intestinal tract since the hormone is destroyed neither by intestinal ferments nor, as it enters directly into the systemic circulation, by the liver before it can exert its effect.

★ *Brit. Med. J.*, 1942, 1, 668,  
*J. Clin. Endocrin.*, 1942, 2, 639.

The Ciba sex hormones for oral administration are, therefore, now being put up in the form of LINGUETS for sublingual use. LINGUETS are sucked under the tongue and take about ten minutes to disappear. As little saliva as possible should be swallowed.

## PERANDREN LINGUETS

contain the orally active derivative of the male sex hormone, methyl testosterone, and may be prescribed in all conditions in which Perandren is indicated in moderately low dosage.

(Bottles of 20 and 100 each containing 5 mg.)

## LUTOCYCLIN LINGUETS

have replaced the original Oral Tablets and contain anhydro-hydroxy-progesterone (ethisterone), a modification of progesterone with marked oral progestational activity. Indications, dosage, packages and prices remain as for the original form.

(Bottles of 10 and 50 each containing 5 mg.)

## OVOCYCLIN LINGUETS

The orally active form of the oestrogenic hormone, oestradiol, will in future be prepared as Linguets in place of Tablets. Commencing with the weakest strength, OVOCYCLIN LINGUETS 0.04 mg. have now replaced the original Tablets of the same strength. As and when conditions allow, the two remaining strengths will be issued as LINGUETS.

Indications, dosage and prices remain as previously.

The packages are as follows:—

### LINGUETS

Bottles of 50 each containing 0.04 mg.

### TABLETS

Bottles of 30 each containing 0.1 mg.

Bottles of 25 each containing 1 mg.



Supplies through usual channels  
Price list on request

**THE LABORATORIES, HORSHAM, SUSSEX.**

Telephone: Horsham 1234.

Telegrams: Cibalabs, Horsham.

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For RETAILER — WHOLESALE — MANUFACTURER

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Telephone: Bath 5492

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## NEWS OF THE WEEK

Deputation to the Minister of Health.—

August 26 a pharmaceutical deputation was received by the Minister of Health and representatives of the Ministry together with representatives of the Department of Health for Scotland. The deputation placed before the Minister the views of the three organisations represented upon the defects of the present system and the arrangements, outlined in the already published memorandum of these bodies, which should be made to meet the pharmaceutical requirements of a national medical service. The Minister informed the deputation that their views would be considered and that at a later stage discussions would take place between the Ministry and the organisations represented. The members of the deputation were: *Representing the Pharmaceutical Society of Great Britain*: Mr. W. S. Howells (resident); Mr. F. G. Wells (vice-president); Mr. H. C. Shaw (treasurer); Mr. A. Meldrum; Mr. H. N. Linstead, M.P. (secretary); Mr. F. W. Adams (deputy

secretary); *Representing the National Pharmaceutical Union*: Mr. T. Heseltine (chairman); Mr. W. J. Tristram (vice-chairman); Mr. A. R. Melhuish (treasurer and chairman, Central N.H.I. Committee); Mr. G. A. Mallinson (secretary); Mr. H. Noble (assistant secretary); *Representing the Pharmaceutical Standing Committee for Scotland*: Mr. F. W. M. Bennett (chairman); Mr. J. Anderson; Dr. J. Tait (secretary).

Medical Examination of Pharmacists.—

A notice issued by the Central Pharmaceutical War Committee states that arrangements have been made for the medical examination of pharmacists and dispensers under the age of thirty at registration without prejudice to the existing deferment positions of the men concerned. It should be noted that these arrangements cover not only retail pharmacy, but men employed in wholesale houses and hospitals. Pharmacists and dispensers in these age groups are, however, advised that if upon



cessation of their deferment granted on pharmaceutical grounds they should desire to make application for postponement on grounds of exceptional hardship, such application should be made to the Ministry of Labour and National Service at the time of the medical examination.

#### Greeting to Swiss Pharmacy Students.—

The British Pharmaceutical Students' Association has sent the following message to the Swiss Society of Pharmacy on the occasion of the latter's centenary celebration: "We, the British Pharmaceutical Students' Association, send greetings to the Swiss Society of Pharmacy on the celebration of its centenary and look forward to meeting the Swiss pharmacists and students after the cessation of hostilities."

**Inquest.**—An inquiry was held at St. Albans recently into circumstances attending the death of a twenty-three months old child. The mother stated she had bought a bottle of lysol which was in a cardboard carton. This was placed on the table while she went to another room. Returning on hearing a scream she found the bottle on the floor and the child with his hands to his mouth. The child died on the way to the hospital. Questioned by the Deputy Coroner in regard to the cork used in the lysol bottle, a medical practitioner said: Corks vary. It is not the usual type. They usually press down very tightly. It is not the usual type I have been accustomed to seeing. The Deputy Coroner said the boy died from lysol poisoning which he took himself, and the verdict would be one of "Death by misadventure." It was an unfortunate accident that this child got the bottle, and unfortunate that the cork was one which could be easily removed.

**"Ultimatum" to London Chemists.**—In a firmly worded memorandum to all chemists under contract with Insurance Committees in the area of the London Pharmaceutical Committee, except those situate within the City boundary, the secretary of the latter committee (Mr. G. A. Tocher, M.P.S.) states that complaints have been received, both from the Insurance Committee and from the Panel Committee, of inadequate dispensing service. In some districts the complaints are found to be justified. Chemists are reminded that National Health Insurance dispensing is a public service under Act of Parliament; that under the terms of service one or more shops in every district must be open to insured persons until 7 p.m. daily throughout the year, except on closing days;

Sundays, and Bank holidays; and that when a shop is closed it is necessary to exhibit a notice indicating other places where medicines may be obtained locally. The letter states that if there are no chemists' shops open regularly until 7 p.m. in the area of the recipient, a rota must be formed at once. A postcard is enclosed on which details of local conditions must be inserted and which must be forwarded to the secretary of the Pharmaceutical Committee within seven days.

**Manchester Garden Party.**—A garden party, arranged jointly by the Manchester Pharmaceutical Association and local Branches of the Pharmaceutical Society and National Pharmaceutical Union, was held at Wythenshaw Park on August 25, by courtesy of the City Corporation. The chief attractions were golf on the miniature golf course in the Park, and a bowling competition. Tea was served in the library at Wythenshaw Hall. After tea, the Association president (Mr. W. Edwards) handed their prizes to the winners in the golf competition, as follows:—*Ladies*, 1, Mrs. F. D. Gee; 2, Miss Latts; *Gentlemen*, 1, Mr. F. C. Baines; 2, Mr. J. H. Franklin. The bowling competition lasted until late in the evening, the winners being:—*Ladies*, Mrs. H. G. Pilling and Miss Sharples; *Gentlemen*, Messrs. W. E. Phillipson and T. Miller. The prizes were very generously provided by Messrs. W. Edwards (Association president), H. Brindle (chairman, branch of the Society), and E. Cronin (chairman, N.P.U. branch).

**Birmingham Analyst's Report.**—The Birmingham City Analyst, in his report for the second quarter of 1943, states that of ninety-three drugs sampled four were found incorrect. A sample of health salts had the analysis printed on the label as required by the Pharmacy and Medicines Act, 1941. Analysis revealed that the percentage of sodium bicarbonate was 35.0 instead of 39.95 as declared; of tartaric acid 29.1 instead of 39.95; and of magnesium sulphate 5.6 instead of 8.55. Partial decomposition had, in fact, taken place resulting in the loss of part of the bicarbonate and tartaric acid and the formation of sodium bitartrate to the extent of 14.3 per cent. The managing director of the manufacturing firm was interviewed and proposed to have an analysis carried out, the findings to be submitted to the Public Health Department. A sample of malt-extract tablets contained 19 per cent. of extraneous mineral matter.

## TOPICAL REFLECTIONS

### Disposal of War Stocks

The problem of the disposal of surplus Government stocks after the war is ended has, it is satisfactory to read, been thoroughly discussed by an American official (p. 221). The "opposite numbers" in the United States to our departmental chiefs have a reputation for expansiveness when a matter of this kind arises. Thus, remembering the witticism of Clemenceau when he was told that President Wilson had promulgated fourteen points, "Et le bon Dieu se contenta de dix," I was relieved to notice that in Mr. T. W. Delahanty's survey of the prospective situation only five points were "outstanding." His remarks were practical. While I doubt whether "there should be much less cause for worry" on the part of commercial communities because "the management and plans for this war were so much more thorough and comprehensive than in 1914-18," I agree that "the manufacturers could plan in advance to forestall the problem, should it arise," and that "market research could act as a further insurance." The experience of public disposal in the United States after the last war shows, among other things, that sales by auction yielded the best prices. Whatever methods are adopted at the close of the present war, the speaker was entirely sound in his view of the general aspects of this many-sided question, and notably on such points as credit and deterioration. The primary problem of governments will, as he foresees, be "to get production back into normal functioning as rapidly as possible and with this view all on this side of the Atlantic can agree.

### On a Desert Island

By what is no doubt a printer's error, the "rescue" of Alexander Selkirk is made, on p. 233, to take place in 1769. Selkirk died in 1723. Though his career may have suggested hints for the narrative of "Robinson Crusoe," he can hardly be regarded as the original of the hero of that book. The matter is discussed at length in one of the volumes (the fourth, I think) of Dr. Ernest Baker's "The English Novel," and more briefly in Chapter IX of the late R. H. U. Bloor's delightful book, "The English Novel from Chaucer to Galsworthy." Mr. Bloor points out that, according to the evidence, Dampier, an explorer and pirate born in 1652, knew of three "Robinson Crusoes" on the island of Juan Fernandez, and knew two of them personally. Dampier was

present when Selkirk, at his own desire, left his ship and landed for a stay on the island. There were two good reasons for this choice, namely, that he hated the captain of his ship and that he expected it to go to the bottom. Defoe, with his genius for assimilating hints, made use, no doubt, of Dampier's "Voyages." Thomas Dover of Dover's powder fame, the subject of your question, has a further, if dubious, claim to remembrance in his fondness for prescribing mercury, a subject of severe criticism by his contemporaries. He may have "got away with it" when practising in Gloucestershire; but his London colleagues used their pens to such effect on this topic that he saw fit to reply in similarly vigorous terms. This controversy was referred to in your Special Issue of June 29, 1935.

### Lavoisier

The bicentenary of the birth of Antoine Laurent Lavoisier, which occurred on August 26, would in normal times have attracted more public attention than it in fact has. The work of several distinguished predecessors—Mayow, Boyle, Priestley and others—led up to his epoch-making discovery of the importance of the gas he named oxygen. They were handicapped, however, by preconceived theories, and even Priestley, under the deadening influence of the phlogiston hypothesis, just missed the full significance of his famous experiment with "the calx of mercury." With true scientific detachment he communicated his results to Lavoisier in 1774, and the French scientist followed up the clue. In 1789, the year of the outbreak of the French Revolution, Lavoisier's treatise containing his conclusions was published. He was very versatile, his studies extending to geology and even to finance. His interest in pure science led to plans for the application of his discoveries to daily life. The promoters of the Revolution, to whom he at first looked for reforms, had no use for him; and at the age of fifty he was sent to the guillotine on a charge of maladministration after a trial that was a travesty of justice. With an established reputation in and beyond France, his great powers might confidently have been expected to yield further benefits to mankind. It is one of the tragedies of history that so brilliant a combination of the scientific and the practical in the same brain was thus lost to the world.

**Xrayser**



## LEGAL REPORTS

**Dangerous Drugs Act.**—At Bexhill, recently, J. G. Murray, M.P.S., 5 Collington Mansions, pleaded guilty to eight offences under the Dangerous Drugs Regulations. He was summoned for supplying dangerous drugs in four prescriptions without entering them in the register, with having dispensed three prescriptions containing such drugs and failing to mark on them the dates on which they were dispensed, and with dispensing one prescription containing a dangerous drug on which was not inscribed a provision by a doctor that it could be dispensed a second time after a certain interval.

According to police evidence no entry had been made in the register between November 23, 1942, and June 29, 1943, and the opinion had been formed that defendant was attempting to give his customers the attention they had before the war to the detriment of his records. The chairman of the magistrates said that while taking into consideration defendant's health conditions and his shortage of staff, there must be a conviction. In one case of failing to make an entry in the register he would be fined £1, with 17s. 3d. costs, in one case of failing to mark a prescription he would be fined 10s., and for dispensing a prescription a second time a nominal fine of 2s. 6d. was imposed. The other summonses were dismissed.

**Alleged Theft of Drugs.**—At a field general court martial at Aldershot, recently, Staff-Sergeant Ronald Garb, R.A.M.C., pleaded not guilty to nine charges. The first alleged prejudicial conduct by writing himself, and procuring Pte. E. H. Perry to write, certain prescriptions for morphine and improperly, without authority, signing twenty-eight prescriptions in the name of a former medical officer in charge of the reception station where accused was serving. Secondly, Staff-Sergeant Garb was charged with stealing 50 tablets of morphine tartrate, and there was a third alternative charge of receiving the tablets. Next was a charge of stealing 50 tablets of potassium chlorate and 50 tablets of formalin and mint, and there was a fifth alternative charge of receiving. The remaining charges related to the alleged thefts of the following: (6), three pairs of forceps; (7), 250 tablets of codeine, 500 tablets of aspirin, 500 tablets of Dover's powder, a roll of cotton wool and a quantity of gauze and lint; (8), a case containing a hypodermic syringe and drugs; and (9) 24 scalpel blades.

The prosecution said with regard to the first charge that the prescriptions were made

out to cover a deficiency in solution morphine which the dispenser had discovered. There was no suggestion that Garb stole the morphine or had used improperly. After witnesses had been called, accused admitted signing the prescriptions but said he had no improper intent.

The Court found accused not guilty to the third, fifth, sixth and eighth charges. Findings on the other charges will be made known later.

## TRADE MARKS

(From "The Trade Marks Journal," August 1943)

- "MOFLO"; "MOGRA"; "MOFUR"; for cleaning preparations, soaps and detergents (3). By Chromol, Ltd., Moorlands Hall, Birkenshaw, nr. Bradford, Yorks. 623,397 (Associated); 623,398-99 (Associated).
- "SAMARITAN"; for olive oil prepared for use in medicine and pharmacy (5). By Thornton Ross, Ltd., Off Manchester Road, Lintwaite, nr. Huddersfield, Yorks. 621,277 (Associated).
- "METHERGIN"; for methylergonovine for use in obstetrics and gynaecology (5). By Sandoz, A. G., 60 Fabrikstrasse, Basle Switzerland. 621,519.
- "SARCOPOL"; for preparations for the external treatment of skin affections (5). By The Anglo-French Drug Co., Ltd., 11 and 13 Guilford Street, London, W.C.1. B622,140.
- "PRU-SEN"; for medicated fruit laxatives for human use (5). By Nutona, Ltd., 32 Commercial Street, Shipley, Yorks. 622,677.
- "ADMNOL"; for pharmaceutical preparation and substances (5). By Fairbank, Kirby (Grimsby), Ltd., Ropery Street, Grimsby. 622,738.
- "PERSEDON"; for pharmaceutical sedative and hypnotics (5). By Roche Products Ltd., 40 Broadwater Road, Welwyn Garden City, Herts. 622,805.
- "ALUPHEL"; for all goods (5). By The Wellcome Foundation, Ltd., 183-93 Euston Road, London, N.W.1. 622,968.
- "THOMAS A. HAYWARD" facsimile signature for pharmaceutical preparations (5). By T. A. Hayward, trading as The Radnage Agency, 13 The Arcade, Letchworth Garden City, Hertfordshire. 623,198.
- "AFKAP"; for pharmaceutical preparations for human and veterinary use, sanitary substances, disinfectants and dental materials (5). By Antiseptic Products, Ltd., 105 Tonbridge Road, Maidstone, Kent. 623,234 (Associated).
- "EXOPON" and "CLARIDOL"; for pharmaceutical substances for human and veterinary use, sanitary substances and disinfectants (5). By Society of Chemical Industry in Basle, 141-227 Klybeckstrasse, Basle, Switzerland. 623,652-53.

## TRADE NOTES

**Now Chargeable with Tax.**—A Customs and Excise ruling that Lectona tonic food is now chargeable with purchase tax at the rate of 16½ per cent. has been made known. This product is manufactured by Matthews & Wilson, Ltd., 6 Cole Street, London, E.1.

**Trade Price List.**—The British Drug Houses, Ltd., Graham Street, City Road, London, N.1, announce that the B.D.H. trade price list dated August 1943 is now available. Pharmacists requiring copies should apply, enclosing one penny stamp to comply with the paper requirements. Early application is advised.

**Full-strength Ammonia Solution.**—Chemical & Natural Products, Ltd., Wimbledon Factory Estate, London, S.W.19 draw the attention of chemists to the fact that a poisons licence is needed for selling all cleansing solutions with an ammonia content of 5 per cent. or over. This includes crubbs' cloudy ammonia.

**Revised Packings.**—Bob Martin, Ltd., Southport, Lancs, have found it necessary, under S. R. & O. 1366, to withdraw the 1-unit packages of Bob Martin's condition-powder tablets and of Tibs. All orders for 1's will be filled with new large-size packages. These are, for condition-powder tablets, packets of nine and cartons of thirty-six; for Tibs, packets of nine and cartons of twenty-seven.

**Photographic Exposure Guide.**—A new and revised war emergency edition of the Wellcome Photographic Exposure Guide, by Burroughs Wellcome & Co., 183 Euston Road, London, N.W., has been issued. The Guide includes the well-known exposure calculator, with a revised list of plate and film factors, and contains useful notes that will help photographers to make the best use of the restricted material available. The edition is limited and the possibility of reprinting is unlikely. Orders should therefore be placed immediately.

**Sex Hormones Sublingually.**—Ciba, Ltd., The Laboratories, Horsham, Sussex, claim that it has been established by clinical investigation that absorption of hormones by the rich capillary network under the tongue is more effective than from the intestinal tract, since the hormone is destroyed neither by intestinal ferments nor, since it enters directly into the systemic circulation, by the liver before it can exert its effect. The Ciba sex hormones for oral administration are therefore put up in

the form of Linguets, which are sucked under the tongue. They take about ten minutes to disappear. The varieties marketed are perandren, lutocyclin and ovocyclin.

### Business Changes

THE offices and warehouses of E. A. Smeed & Son, Ltd., 1 Morocco Street, Bermondsey, London, S.E.1, are closed from August 30 until September 11.

J. A. EWING & CO. (LONDON), LTD., notify the trade they are no longer operating from Hatch End or King William Street, E.C.4. Their new address for all departments and including the W. B. Pickles & Sons department, is Finsbury Court, Finsbury Pavement, London, E.C.2. Telephone: Clerkenwell 6231.

### Proprietary Articles Trade Association

**Additions to Protected List.**—Glaxo Laboratories, Ltd. 2:7-Diaminoacridine hydrochloride powder in 25-gm. bottles, 62s., 496s. doz., tax 82s. doz., inclusive retail price 68s. 10d.; 5-aminoacridine hydrochloride powder in 25-gm. bottles, 31s., 248s. doz., tax 41s. doz., i.r.p. 34s. 5d.

**Alterations.**—Wright, Layman & Umney, Ltd. Wright's malt extract with cod liver oil, 1 lb., 2s. 4d., 20s. 6d. doz.; 2 lb., 4s. 5d., 39s. doz. (exempt from tax). Wright's malt extract with cod liver oil and iron, 1 lb., 2s. 3½d., 21s. doz., tax one-sixth, i.r.p. 2s. 7d.; 2 lb., 4s. 4½d., 40s. doz., tax one-sixth, i.r.p. 4s. 11d.



Gathering sphagnum moss in the Nant Ffrancon Pass, North Wales

**CLOSED ON SATURDAYS.**—Advertisers and subscribers are reminded that owing to war conditions the Head Office of THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2, is closed on Saturdays until further notice. Urgent instructions relating to advertising and subscriptions should be sent to the C. & D., 17 Argyle Street, Bath, Somerset.



## COMPANY NEWS

**CHEMICAL TRANSPORT, LTD. (P.C.).**—Capital £100. To co-ordinate transport, and particularly the movement of chemicals in bulk. Directors to be appointed. Solicitors: Soames, Edwards & Jones, 429 Strand, London, W.C.2.

**DOMESTIC CHEMICAL COMPOUNDS, LTD. (P.C.).**—Capital £1,000. To acquire the business of chemical manufacturers carried on by Clifford Moore and John R. Archibald at Newcastle-on-Tyne. C. Moore and J. R. Archibald, directors. R.O.: 217 Westgate Road, Newcastle-on-Tyne.

**MEDO-CHEMICALS, LTD. (P.C.).**—Capital £500. Chemists, druggists, importers and manufacturers of and dealers in industrial preparations and proprietary articles, etc: Rudolf J. Hulse and Ralph W. Dixon, directors. R.O.: 178 Pentonville Road, London, N.1.

**A. W. BETHUNE, LTD. (P.C.).**—Capital £600. To acquire the business of a chemist and druggist carried on as A. W. Bethune at 286 High Street, Langley, Slough. Andrew W. Bethune, M.P.S., Adelaide H. Bethune and Stella J. Kirkham, directors. R.O.: 286 High Street, Slough.

**A. M. YORK & SONS, LTD. (P.C.).**—Capital £1,000. Importers, exporters and manufacturers of and dealers in rubber goods, chemicals, druggists' sundries, etc. Alfred M. York and Roland York, both of 151 Boundaries Road, London, S.W.12, directors. R.O.: 158 Bishopsgate, E.C.2.

**HEDLEY PATTINSON, LTD. (P.C.).**—Capital £1,000. To acquire the business of a chemist carried on as "Hedley Pattinson" at 213 Whitley Road, Whitley Bay, Northumberland, by Lilian J. Ewart. Lilian J. Ewart, Lilian J. Elliott, and Mary A. Mann, directors. R.O.: 213 Whitley Road, Whitley Bay.

**D. & B. WALKER (SOUTH SHIELDS), LTD. (P.C.).**—Capital £1,500. To acquire the business of family and shipping chemists carried on as Dixon & Black at 51-53 Hudson Street, Tyne Dock, S. Shields. Thomas H. Dixon and Norman Black, M.P.S., 14 Sunnillaws, S. Shields, directors. R.O. as above.

**WATKINSONS (PRESTON), LTD. (P.C.).**—Capital £2,000. Manufacturers of and dealers in medicines, confectionery, chemists' sundries, etc. Neville C. Bailey, William C. Bailey, and Frederick Chaloner, M.P.S., 18 Blundell Lane, Penwortham, Preston, directors. R.O.: 46-52 Elswick Road, Newcastle-on-Tyne.

**ROGO CHEMICAL INDUSTRIES, LTD. (P.C.).**—Capital £1,000. Manufacturers of dealers in chemicals, dyestuffs, disinfectants, foods, toilet goods, etc. G. Rogers, Hampton Road, London, E.7, and J. M. Gorden, 116 Langford Court, Abbey Rd. London, N.W.8, directors. R.O.: Cranbourne Gardens, N.11.

**PLANT HORMONES, LTD. (P.C.).**—Capital £1,000. Manufacturers of, agents for wholesale and retail dealers in organic and inorganic chemical products for use in agriculture, etc. Albert J. Wuertz-F. (Swiss), Piltdown, White Lion Road, Little Chalfont, Bucks, perfumery essence manufacturer; and Cyril H. Temple, direct. R.O.: Mount Pleasant, Alpert Wembley.

**GLASSTONE & GORDON, LTD. (P.C.).**—Capital £1,800. Consulting, manufacturer and general chemists, herbalists, etc. J. E. Grove, 882 Grimesthorpe Road, Sheffield (a director of Jenners (Chemists), Ltd. Leonard C. Laxton; Geoffrey W. Unwin, M.P.S., 111 High Street, Rayleigh, Essex, director of Yardley (Rayleigh), Ltd.; and Arthur S. Gordon, directors. R.O.: 2 Porters Avenue, Dagenham, Essex.

**ADJUSTMENT ORDER.**—Alfred Ern Chadwick, M.P.S., 16 Mount Echo Avenue, Chingford, Essex; adjustment order under the Liabilities (War-time Adjustment) Act 1941, granted July 9.

**DELETED FROM REGISTER.**—"The London Gazette," August 24, notifies that Irving's Sea-Vitoids, Ltd., and Madis (Chemists), Ltd., have been struck off the Register of Companies.

**WINDING-UP.**—At an extraordinary general meeting of members of Woodlark Chemists, Ltd., held in London on August 11, the following Extraordinary Resolution was passed: "That it has been proved to the satisfaction of the company that the company cannot, by reason of its liabilities, continue its business, and that it is advisable that the same should be wound up and that the company be wound up accordingly. That Frederick Wilcock, 3 Salisbury House, Finsbury Circus, London, E.C.2, be and is hereby appointed the liquidator of the company."

**VOLUNTARY LIQUIDATION.**—Meetings of creditors and members of Homburg Pharmacy Ltd., will be held at the offices of Gundry Cole & Co., 3 Great Winchester Street, London, E.C.2, at 12 noon and 12.15 p.m. respectively on September 16.

## LAVOISIER, 1743-94

debt chemistry owes to Lavoisier, the bicentenary of whose birth occurred on August 26, is acknowledged. — When a distinction is drawn between alchemy and modern chemistry, the dividing line may perhaps be placed at his formulation of the theory of the indestructibility of matter. ("Rien ne se perd. Rien ne se crée.") This may be regarded as fundamental to the modern science of chemistry which it has developed, just as the phlogistic theory, which Lavoisier exploded, is illustrative of the many picturesque hypotheses (such as "spontaneous generation") that were prevalent before the methods of close observation and accurate measurement were universally applied.

### Product of his Age

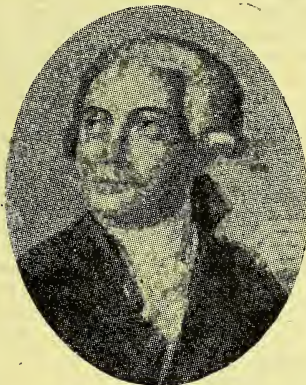
Antoine Laurent Lavoisier was born in Paris, at a time when the rationalism of Voltaire was the prevailing philosophy, and undoubtedly this fact had its influence on his career. Of outstanding mental energy and financially in comfortable circumstances, Lavoisier was capable at once of appreciating the new scientific activities of his age, and of being able to carry out experiments on a generous scale. At the early age of twenty-five, after publishing treatises on the best method of illuminating the French capital, and on geological phenomena, he was admitted to the Academy of Science. The theories of Black, Cavendish and Priestley concerning the elastic nature of fluids and gases particularly attracted him, and his experiments were subsequently largely in this direction. A difficulty that kept recurring to him—after early experiments on phosphorus and sulphur had shown him that these substances increased in weight after combustion—was that an increase in weight could mean a gain of something, and not the loss of any hypothetical "phlogiston," such as Priestley and others postulated. He pursued his logical inferences on this question between 1765 and 1777, when he was sure enough of his facts to advance proofs that combustion was due to combination of a substance with a gas present in the atmosphere. To this he gave the name oxygen ("acid-producer") from a mistaken,

if understandable, belief that the gas was present in all acids.

### Elucidation of the Mechanics of Combustion

Lavoisier's title to have shared in the discovery of oxygen has been discussed at some length in these columns (see Annual Special Issue, 1936, p. 763). There is thus no occasion at this juncture to enter into

any controversy on the subject. The importance of Lavoisier's work on oxygen, however, lies in the revolutionary change it brought about in the mental attitude of research workers towards the whole process of combustion. The clear-sighted French experimenter offered an explanation of the reactions, composition and quantitative relations of chemical compounds without the help of a "phlogiston." By showing the connexion between body heat and combustion he also paved the way for the modern theory of metabolism. Finally, he estab-



Antoine Laurent Lavoisier

lished the system of chemical nomenclature which remains in general use—a pregnant enough tribute to his prevision. Lavoisier's work on combustion and calcination began in 1772 with his collaboration with Macquer and Cadet in their attempts to burn diamond. He followed this by experiments in obtaining elastic fluids by heating various substances after the manner of Hales, Black, MacBride and Priestley, and in work on the calcination of metals he found that there was a limit to the process in a limited amount of air. During 1773 he was occupied with his calces, air and the fixed air ( $\text{CO}_2$ ) of Dr. Black (see below). In his mind there was a confusion between "fixed air" and that portion of common air which was the active agent in combustion and calcination. As we have already seen, Lavoisier was made acquainted by Priestley in October 1774 with the results obtained by the latter in his experiment in the previous August upon the mercurius calcinatus. Lavoisier repeated Priestley's experiment in March 1775, and at first thought the released air was "fixed air"; but as it did not precipitate lime water he concluded it was common air with "a little of the nature



of inflammable air." During 1776 and 1777 he prosecuted his work upon the properties of Priestley's "dephlogisticated air," especially in regard to its respirability and the maintenance of combustion of lighted candles. He noted in 1777 that a burning candle converted only "the pure part" of common air into "fixed air," and showed that air consisted of two elastic fluids, the "pure part" and a non-respirable part. The crucial experiment was his famous demonstration in which he calcined mercury in a closed vessel for twelve days. The residual air was "mephitic." The calx he had obtained was then heated in a retort and the expelled air collected over water; this was respirable, and when mixed with the residual mephitic air the mixture had all the properties of common air.

### Quantitative Method

That the quantitative method in chemical investigation was inaugurated by Lavoisier has been disputed by Dobbie (see *C. & D.*, 1899, II, 942), who demonstrated the indebtedness of the Parisian to the Glasgow lecturer Dr. Black (1728-1799). Black's work was notably on the alkalis and alkali carbonates, whose relationship to one another he elucidated, and there is certainly evidence that Lavoisier made use of Black's discoveries. Nevertheless, there is no disputing the fact that Lavoisier, whose positions as director of the French government's gunpowder mills and as a member of the *Ferme* (the private concern entrusted with the collection of the taxes) gave him an understanding of the importance of statistics, developed and applied the quantitative method in all his researches. This is exemplified in his examination of the supposed conversion of water into "earth," of which the following description is taken from "Occasional Fragments of Chemical History":—

"After having boiled water continuously for 100 days in the stoppered 'pelican,' Lavoisier found that the glass had been attacked to such an extent that it had lost 17.38 grains in weight and that the solid matter deposited at the bottom of the pelican weighed 4.9 grains, while the substances in solution in the water left behind on evaporation weighed 15.5 grains—that is, the total solid matter recovered amounted to 20.4 grains, or just over three grains more than the actual loss in weight of the pelican. Lavoisier explained that this excess might be attributed to the circumstance that the liquid contents of the pelican had, in the course of the later

operations of the experiment, been in renewed contact with other glass vessels from which a small part of their substance might have been dissolved. Moreover, he mentioned it as probable that a small quantity of water had combined with the earth."

The "Traité Élémentaire de Chimie," published by Lavoisier in 1789, has been likened to Newton's "Principia" in its effect of establishing a unified science. His other works were on a variety of subjects ranging from agriculture to administration but even the titles of his chemical contributions bear witness to the breadth of his interests. They include "The Combustion of Phosphorus and Sulphur"; "Experiments with Diamond"; "The Calcination of Tin"; "The Solution of Mercury in Nitric Acid"; and "Carbonic Acid." The end of Lavoisier was cruel and undeserved. He was guillotined in 1794 for supposed malpractices in adulterating tobacco while an officer of the *Ferme*. When he was executed, Lavoisier was at the height of his powers. Had he survived to the normal span his services to chemistry, already immense, might have been incalculably greater.

## MUSTARD GAS POISONING IN THE HORSE

WATSON ("Veterinary Record," July 31, p. 301) describes the case of a pony which apparently suffered from mustard gas poisoning from grazing in a field in close proximity to which mustard gas had been used in the course of military exercises. The initial picture was one of extreme nausea, profuse salivation, and every few minutes the animal dipped its nose into a nearby trough of water. The salivation caused fits of coughing. The entire mouth region was freely flushed with a solution of sodium bicarbonate (one dessertspoonful to a pint of water), the eyes and nostrils were sponged with solution of boric acid, and later the mouth was swabbed three times daily with a solution of 1-1,000 acriflavine. As a precautionary measure the feet and legs were washed with soap and water to which had been added a little sodium carbonate. The water in the drinking trough was replaced by a solution of sodium bicarbonate. A dose of ammonium carbonate was administered by a stomach tube. The animal commenced to feed normally after two days and subsequently thrived quite well.

## PERSONALITIES

MR. STANLEY WOODMARK has been appointed to a third term of office as Master of the Society of Apothecaries.

MR. JOHN MCGIRR, B.Sc., M.R.C.V.S., has been awarded the first Wellcome junior fellowship in veterinary research.

MR. C. E. GERHART, pharmacist, Coronation, Alberta, has been appointed Minister of Municipal Affairs in the Alberta (Canada) Government.

LYING-OFFICER J. B. SHEPHERD, M.P.S., Newport Road, New Bradwell, Bucks, reported missing from an operational tour over Germany. F.-O. Shepherd is thirty-three years of age and volunteered for the Royal Air Force two years ago. He was educated at Nottingham University, qualified in 1935, and formerly managed a pharmacy at New Bradwell.

MISS M. C. ISLIP, M.P.S., who was recently elected president of the National Association of Women Pharmacists, is a pharmacist at Paddington Green Children's Hospital. She qualified in 1929, and has been in employment secretary of the Association—a post she still holds—since 1938. She was chairman, Harrow Branch of the Pharmaceutical Society in 1939-40.

COUNCILLOR J. W. HUDDART, M.P.S., 10 West Park Drive, Blackpool, has been appointed a justice of the peace for the borough. He has been a member of the Town Council for over five years, and is chairman of the local Education Committee. Councillor Huddart is also a former president of Blackpool Chamber of Trade, the local Rotary Club and a member of the Blackpool Insurance Committee.

MR. CHARLES EGGO, M.P.S., 8 Union Street, Stirling, who has been missing since the fall of Singapore, is now reported a prisoner of war in the hands of the Japanese. Eggo served his apprenticeship with W. Yule, M.P.S., Port Street, Stirling, qualified in 1940 and in 1941 took his diploma in biochemical analysis at Glasgow University, afterwards volunteering for the Royal Army Medical Corps.

## BIRTHS

BARROWMAN.—At Craigard, Renfrew, on August 25, Lily, the wife of George Barrowman, M.P.S., 4 High Street, of a son.

HOWLER.—At Thorpe Hall, Peterborough, on August 20, Anna Margaret, the wife of Alfred Cyril Fowler, M.P.S., 78 High Street, Peterborough, of a daughter (Elizabeth).

## MARRIAGES

COLE—O'RIORDAN.—At St. Brigid's Church, Killester, co. Dublin, recently, Hubert A. Cole, M.P.S.I., 49 Sandycove Road, Dublin, to Alice O'Riordan.

## DEATHS

BISSET.—At Burntisland, on August 22, Mr. James Bisset, M.P.S. Mr. Bisset qualified in 1920.

BROWN.—Previously reported missing at sea, now officially presumed killed in action, Mr. Charles Bisset, formerly a representative in Scotland for Macleans, Ltd.

CARGILL.—At Glasgow, on August 11, Mr. George Cargill, M.P.S., 268 Crown Street, aged fifty-one.

CASS.—In St. Chad's Hospital, Birmingham, on August 22, Mr. John William Cass, M.P.S., 64 Upper Street, St. Mary's Road, Birmingham, aged eighty. After a successful business career Mr. Cass nominally retired twenty years ago. Retaining a lively interest in pharmacy he devoted much of his leisure in doing holiday and emergency work for a circle of friends. An S.O.S. never failed to bring prompt and generous help and the memory of his lengthy useful life will be cherished in local pharmaceutical circles where he was highly esteemed.

CRANE.—Recently, Mr. William Thomas Crane, M.P.S., 39 Warwick Road, Leamington Spa, aged sixty-four.

CULBERT.—At Airdrie, recently, Jessie Wilson Millar, the wife of Mr. W. Spence Culbert, M.P.S.

EVANS.—Recently, Mr. Morgan Davies Evans, chemist and druggist, 26 Idris Villas, Towyn, aged seventy-five.

HODGSON.—Recently, Mr. Baron Cuthbert Hodgson, chemist and druggist, 58 Warley Road, Halifax, aged sixty-seven.

JESPER.—Recently, Mr. Charles Frederick Jesper, M.P.S., 24 Southbank Road, Southport, aged eighty-one.

JONES.—Killed in action, recently, Lieutenant Kenneth Jones, who, prior to the outbreak of war, represented A. L. Simpkin & Co., Ltd., chemists' confectionery manufacturers, Sheffield, in the South-western counties.

PEEL.—On August 16, Mr. Wilfred Peel, M.P.S., 41 Stainland Road, West Vale, Greetland, Halifax, aged sixty-one.

WOOD.—At Watford, recently, Mr. Harold Elderkin Wood, Ph.C., 97 St. Albans Road, aged sixty.



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## EMPIRE AND FOREIGN NEWS

**French Exhibition of Drug Substitute**  
An exhibition of substitute materials, held recently at the Salle Pleyel, Paris. Among the many products on show was "ersatz" soft paraffin.

**Quinine Supplies in Greece.**—Serious malaria outbreaks have created a quinine problem in Greece, but it is understood that imports by the International Cross will be sufficient to meet demand.

**Examination of French Proprietaries.**  
A new decree makes it obligatory for proprietary medicine manufacturers to submit their products to a special examining committee. No medicines may be sold without the committee's stamp.

**Rape Oil Production in Bulgaria.**  
"Castor" oil in Bulgaria is to be made in future from rape seed. Farmers are being given the seed free and encouraged to cultivate it, and all supplies will be bought by the Government, which holds a monopoly.

**Research Council for West Indies.**—The Anglo-American Caribbean Commission has established a research council to promote scientific, social and economic research on behalf of the people of the West Indies. The council will include representatives from Britain, America and the Netherlands.

**Bandages Rationed in Italy.**—Owing to a shortage of gauze the Italians are rationing bandages. Standard types are issued, and all other bandages are "frozen" on the shelves of both manufacturers and retailers. Cotton-wool dressings are also being controlled, and are not allowed to be sold except on prescription.

# THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

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Official organ of The Pharmaceutical Society of Great Britain, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Scotland and of other Chemists' Societies in the Empire

CXL SEPTEMBER 4, 1943 NO. 3317

*fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper or described in its editorial columns should not be taken as an indication that they are necessarily available for export.*

## The New Control of Toilet Preparations

In last week's issue (pp. 224-25) we published a memorandum issued by the Board of Trade on the new Toilet Preparations Order. The Order itself (the Toilet Preparations (No. 3) Order, 1943, S. R. & O., No. 3) is now available, price threepence, from the Stationery Office, York House, Kingsway, London, W.C.2. The new Order, which came into force on September 1, introduced an entirely new method of restriction and control of supply. The old system of quotas is superseded by one of individual licensing, and it is to operate in a manner that should close the legal loopholes of the former toilet preparations Orders and put a stop to deliberate illegal production and supply which has fed a steadily growing black market in these goods. The amount of goods to be supplied, in value, is in no way further reduced but, generally, there is an all-round tightening up of control. For the time past it was known that the authorities were concerned with the vast increase in the illegal production and supply of cosmetics, toilet preparations, and similar goods, but they had little power to check it. The main features of the new licensing system are as follows:—

## Control of Manufacture and Supply

Manufacturers who are included in the department's Toilet Preparations Register will by this time each have received an individual licence to manufacture and supply specified types of controlled goods up to a certain value for the four-month period September 1 to December 31. The licence will also state the address of the premises at which the goods are to be manufactured, the sizes of the containers in which the goods are to be packed, and the minimum value of each unit to be counted against the licence value; where a higher value is obtained this will be taken as the value of the unit against the total value of controlled goods stated on the licence. Although manufacturers' names are in the Toilet Preparations Register they must not manufacture any class of controlled goods without first having obtained a licence to do so from the Board of Trade. Manufacturers are not permitted to process goods which are not their own property, but exceptions to this rule, and similar matters, will be considered in cases where two or more firms have been "concentrated."

## The Control of Raw Materials

The department has recognised that much of the abuse of former Orders has been due to the availability of raw materials, much of them from unusual and new sources, and, to some extent, to the introduction of new and substitute materials. From September 1 it has been an offence to sell raw materials to be used for the purpose of manufacturing goods controlled by the Order except to firms whose names appear in the department's Toilet Preparations Register, and to retailers who may be classed as authorised suppliers of controlled goods (retail chemists) if they were supplying controlled goods of their own manufacture on October 1, 1941. The onus of conforming to this regulation will be on the supplier of the raw materials, but a purchaser who does not come within one of the above categories would also be liable to prosecution. Suppliers of raw materials can check the names of wholesale customers from the Toilet Preparations Register, and in the case of orders for raw materials to be used for making controlled goods from retail chemists, it will be necessary to obtain a



declaration from buyers that they are authorised but unregistered manufacturers and suppliers of goods controlled by the Order.

### The Retail Chemist's Position

Retail chemists, provided they were manufacturing and selling their own controlled goods on October 1, 1941, are given what may be termed "an open general licence" to make and sell their own goods up to the sales value of £41 13s. 4d. in any one month. Controlled goods purchased from registered suppliers are excluded from this value. For instance, besides making and selling his "own line" controlled goods to the above value a chemist can sell without limit all the national branded toilet preparations he is able to purchase.

### Marking for Identity Purposes

All controlled goods must be clearly marked on the container with the name and address of the maker and the name of the controlled product *prior to being supplied*. This rule is to be rigidly enforced both as regards wholesale and retail transactions, and offenders are likely to be prosecuted without warning for a first offence. It comes fully into force for manufacturers on December 1 next and for retailers on January 1, 1944. Repacking by registered suppliers of controlled goods, except under licence, and except by retailers into customers' own containers, is prohibited, and in the latter case the container must be marked with the name and address of the supplier and the name of the product prior to it being supplied. It is understood the department will shortly issue a list of "licensed packers." No person may supply any goods as toilet preparations if, when he acquired them, they were not marked and invoiced in such a way as to indicate that they were toilet preparations. Neither must they supply goods as other than toilet preparations believing them to be required for use as such.

### The Keeping of Records

Both registered suppliers and retailers are required to keep detailed accounts of their purchases of raw materials, the quantities and kinds of controlled goods they manufacture, and detailed records of sales. Manufacturers will make periodical returns

to the department of their business, but retailers (unregistered but authorised suppliers) will not need to make such return. It should, however, be understood that retailers must keep such records to the extent that each "supply" must be entered up immediately the sale of an "own line" product has been made. Representative of the department will visit retailers for the purpose of checking such records, and this will be made from time to time. For instance, an inspector may purchase over the counter a unit of an "own line" toilet preparation on, say, a Wednesday. He may call back on the Friday and, after disclosing his identity and showing his authority, ask to see the retailer's record of day-to-day sales of his own manufactured controlled goods. If the sale made to him on the previous Wednesday is not entered up in its normal order the retailer will be liable to prosecution. It will not be sufficient to enter sales at the end of the day or once a week; the record must be made at the time of sale. The department is of opinion that it is essential this rule should be rigidly adhered to by retailers.

### Miscellaneous Regulations

The supply of hair preparations containing petroleum products by registered persons is prohibited except under special licence, and these will cease after December 31, 1943. The supply of these preparations by retailers is prohibited after February 2, 1944. The supply of controlled goods containing more than one part in 200 by weight of specified solvents is to be prohibited except under special licence by registered suppliers after October 31, 1943, and by retailers after December 31, 1943. Shampoos, including soapless types, are excluded from the provisions of the Order. Shampoos of all descriptions are controlled under the Order of the Ministry of Food. Retailers may freely supply calamine lotion, except the quota of £41 13s. 4d., but they cannot supply it on a doctor's prescription or under any other circumstance outside their quota. Supplies of all controlled goods to N.A.A.F. and other institutions specified in the second Schedule to the Order are outside the ordinary licence. The Order itself, consisting of ten pages of closely printed matter, may appear—as indeed it is—exceedingly con-

ated, but licensed suppliers and retailers, it is hoped, appreciate that this rigid control is necessary in order to restrict production and sales to their intended limits, and to preserve the business for established makers and traders. The war-time scarcity of these goods has attracted an undesirable element which has sought to make excessive financial gains by putting on the market contraband goods of dubious quality, and this is in the national interest, as well as that of the established trade, wholesale and retail, that it should be ruthlessly eliminated, and the department seeks the co-operation of the legitimate trade to achieve this end.

## When Negative may be Positive

The labelling of what are generally known as female capsules has presented a difficult problem since the passing of the Pharmacy and Medicines Act, 1941, Section 9 of which prohibits advertisements relating to articles any description "in terms calculated to lead to the use of" these articles in the procuring of abortion. Some manufacturers, in their desire to comply with the Act have printed on the label of this type of product words such as "not to be taken in cases of pregnancy," but as the result of the Huddersfield prosecution, reported in the *6 D.*, August 28, p. 213, it will be necessary for such "warnings" to be deleted.

The ingredients of this type of preparation are familiar to all chemists, and reference books on therapeutics usually indicate that the drugs concerned, such as aloes and pennyroyal, are used as emmenagogues. It is of importance, therefore, to compare these statements with those made in recent months when legal actions involving "female pills" have been *sub judice*. Dr. Roche (senior official analyst to the Home Office), in giving evidence before the Pharmaceutical Society's Statutory Committee (*C. & D.*, 1942, II, 143), said that the oil of pennyroyal was a reputed abortifacient but the amount in the capsules which also contained carbonate of iron (and oil of cajuput) was so small that it would have no abortive action whatsoever, and added that oil of cajuput as an abortifacient was negligible. Later, at Birmingham, when two women were prosecuted for, among other charges,

procuring a "noxious thing" called aloes, it was stated by the prosecution that the pills, which weighed  $3\frac{1}{4}$  gr., and contained  $\frac{1}{4}$  gr. of aloes, were sold as female corrective pills. Evidence was given by Professor Webster, director of the West Midland Forensic Science Laboratory, who stated that he had conducted post-mortem examinations on girls who had taken pills of this nature and died as a result from abortion. He considered "not to be taken by pregnant women," so far from acting as a deterrent, was simply an advertisement. In the Huddersfield prosecution Dr. J. M. Gibson, Medical Officer of Health, said pennyroyal, which had a popular reputation for producing abortion, might produce this effect, but the quantity in the compound was so small that he doubted if it would in this case. His opinion was that the ingredients would have little effect, but that the "not to be taken" label would cause some women to use the capsules in the belief that they would cause miscarriage.

## "Warning" No Safeguard

It will be seen that in two of the three cases quoted medical evidence has been to the effect that, while the ingredients of the preparation were virtually of no value for procuring abortion, the prohibitive label would have the opposite effect from that apparently intended. In the Birmingham prosecution too, Dr. Webster held the same view as regards the label. In Huddersfield the counsel for the defence argued the value of the prohibition with great ability, but the stipendiary was of the same opinion as the doctors. The effect is, therefore, that to label female capsules with such a warning as has become the custom is not a safeguard against a prosecution for selling an abortifacient, whether the ingredients are of value for the purpose or not. This leads to an interesting situation. According to the evidence the only potent drug is aloes, yet more than one proprietary on the market contains this ingredient. Then if such ingredients as the oils of pennyroyal and cajuput and iron carbamate in the amounts contained in the products are of no value as emmenagogues, is it not in the public interest for legal action to be taken against the sellers under other legislation than the Pharmacy Act? Chemists, too, may have to answer to the Statutory Committee, and it would perhaps be more discreet to do as many have already done, i.e. discontinue the sale of these preparations if they are harmless, or supply only on prescription.



## STATEMENT ON PENICILLIN

THE Medical Research Council has issued the following statement on the present position as to the supply and distribution of penicillin, which is "known in the profession, and even to some extent among the laity" to have remarkable properties:—

In order to extend and amplify the pioneer work of Professor Fleming, and of Professor Florey and his colleagues at Oxford, the Medical Research Council, at the request of the Ministry of Supply, last March appointed a Committee on Clinical Trials of Penicillin, which controls the distribution of penicillin for purposes of clinical research, and is instructed to employ the present limited supplies to gain new knowledge of the curative possibilities of the drug rather than merely to repeat the therapeutic successes of which it is already known to be capable. In addition to a quantity allocated to the War Office for trial in wounds in the Army overseas, supplies of penicillin for research into the systemic treatment of selected infections have been allocated to four centres in this country; four others are receiving, or are about to receive, smaller supplies for the study of local treatment only. It has not seemed advisable at present that these centres should be made generally known, nor that an invitation should be issued to refer suitable cases to them, because the number of patients which can be dealt with are so limited that this could only cause widespread disappointment.

The policy of the therapeutic trials now

proceeding is to treat conditions known to be susceptible only so far as is necessary to define the minimum effective dose and the best methods of administration. Any factors not yet studied on which success may depend, and to explore possibilities of penicillin treatment in conditions hitherto unstudied from this point of view. Penicillin is known to have action on many species of bacteria, some of which cause a great variety of lesions in these, together with the many forms of infection an infected wound may take, afford a field of study.

Even with the fullest co-operation of the Ministry of Supply and of the manufacturing firms, the difficulties in making penicillin on a commercial scale are so formidable that the present output of this country is scarcely sufficient for work in the four main research centres, and is only a minute fraction of the quantity which would be required if all cases of even a few specified infections were to be afforded treatment. Production on a greatly increased scale is being urgently undertaken both here and in the United States, but in both countries the requirements of fighting services are likely to absorb a large part of the output for some time to come, so that to name a date when adequate supplies will be available for general use is at present impossible. It will be appreciated therefore that requests for supplies of penicillin for the treatment of individual patients cannot, under existing conditions, be

## PENICILLIN RESEARCH PROGRESS

As will be seen from the Medical Research Council's statement about penicillin supplies and distribution (above), it remains impossible to forecast a date on which supplies of this important bacteriostat will be available for general use. Nevertheless, researches upon penicillin have made considerable progress, and it is as well that chemists should have some knowledge of the state of present knowledge of what may one day become a main weapon of precision in the physician's armoury.

The earlier work by Florey and Florey (see *C. & D.*, 1940, September 7 Coloured Supplement and 1941, I, 110) was carried forward by the same authors in the "*Lancet*" (March 27, p. 387). They there enumerated "facts that must always be kept in mind when the drug is used for the treatment of

patients." These include the following:—Penicillin is reasonably stable impure sodium salt. Penicillin can be made. This is extremely soluble in water but is destroyed by boiling, by acids, and alkalis, certain heavy metal ions, oxidising agents, and enzymes produced by air and other bacteria. Penicillin is bacteriostatic and not bactericidal, at least in the concentrations likely to be used therapeutically, and reliance must therefore be placed on the body defences, both humoral and cellular, to destroy the bacteria present in a lesion while penicillin prevents their multiplication. Pus, blood, serum, tissue autolysates do not interfere with the antibacterial action of penicillin, and a large number of organisms present have little or no effect on its capacities. Leucocytes in live and tissue cultures will grow in

ence of a concentration many times greater than that necessary to produce bacteriostasis. Mice will tolerate without the symptoms a dose much in excess of which will produce bacteriostasis in the blood, and artificially induced infections in mice can be controlled by repeated injections of penicillin.

### Markable Results from Injection

The few therapeutic trials previously reported indicated that no serious toxic symptoms need be anticipated in man. It also showed that penicillin is rapidly excreted by the kidneys in a high concentration, so that large doses must be given to maintain a bacteriostatic level in the blood. Of fifteen cases of serious illness treated, ten resulted from staphylococcal infections, three from infection with actinomyces or streptothrix plus an anaerobic streptococcus, one was due to *Streptococcus pneumoniae* and the remaining one was a sulphamide-resistant streptococcal meningitis. Only one included infections "so advanced that the outlook was hopeless by all previous standards," yet all recovered. The results led to the conclusion that a generalised staphylococcal infection can be cured with penicillin (unlike the sulphonamides). The most practicable method of administration was found to be intramuscularly at three-hourly intervals. To ensure that the blood contained at least enough penicillin to inhibit the growth of the infecting organism, a dose of the order of 15,000 Oxford units was required.

### Local Applications

Locally the treatment was used in infections of the eye and mastoid process, otitic wound sinuses, etc. In most cases, staphylococci and streptococci were eliminated; healing followed. Repeated applications at short intervals were necessary, but applications as powder, ointment or solution were all remarkably successful. The tests seemed to confirm that there are virtually no toxic effects from penicillin, and it may be found that impurities have accounted for many doubtful effects noted. There is, however, some evidence that a penicillin resistance may arise in bacteria if insufficiently large doses are given at the outset.

### Related Compounds

The chemistry of penicillin and related compounds was reviewed in the "British Medical Journal" of April 17, p. 481. The penicillin extract has a yield of about 4 Oxford units per c.c. of culture

fluid, but by means of absorption, distribution between solvents, and reduction, a barium salt has been obtained, having an activity of 450 to 500 units per mgm., which appears homogeneous by chromatographic analysis. By elementary analysis an empirical formula has been suggested for this salt, but its structural formula is necessarily more difficult to ascertain. This purified penicillin completely inhibits the growth of *Staph. aureus* at a dilution of 1 in 24,000,000 to 30,000,000, and is free from toxic reactions as judged by its effect on leucocytes or on mice into which it has been injected. It is very unstable, and is readily inactivated by treatment with acid, alkali, or by boiling. In the form of the dried barium salt, however, it keeps its antibacterial power indefinitely. Among other substances having bactericidal properties and isolated from bacteria or fungi are pyocyanase from *Pseudomonas aeruginosa*; tyrothricin (gramicidin and tyrocidin), isolated from *Bacillus brevis*; actinomycin A and B, isolated from *A. antibioticus*; and pro-actinomycin. A total of ten saprophytic actinomycetes are bacteriostatic in some degree to the Gram-positive cocci. Some, such as tyrocidin and pro-actinomycin, are unsuitable because they are toxic to mice and stop the movements of leucocytes in high dilution after only a few minutes. Gramicidin is toxic on intravenous injection, but is less dangerous when applied locally or injected subcutaneously or intramuscularly.

### Novel Type of Base

The known facts about penicillin indicated that a substance responsible for certain reactions was a fundamental part of the penicillin molecule (see "Nature," 1943, I, 107) and that it was a novel type of naturally-occurring base, for which the name penicillamine was proposed. The amine was obtained by hydrolysing barium penicillin at 100° C. for one hour by means of N/10 sulphuric acid and precipitating it from concentrated solution with mercuric chloride. After removing the mercury with sulphuretted hydrogen and evaporating at room temperature under diminished pressure, a mass of homogeneous crystals was obtained, for which analysis gave the formula  $C_6H_{11}O_4N \cdot HCl$ . The exceptional properties of the compound include: Deep blue coloration with ferric chloride solution; reduction of ammoniacal silver nitrate solution; green colour with Fehling's solution; and reduction of iodine in cold acid solution.



### Penicillin Progress in America

In the United States some sixteen companies are engaged in the production of penicillin, but production remains so limited that supplies are available only to the few, despite Press claims that an easier method of manufacturing the compound has been discovered. Penicillin has been successfully employed in Service cases of staphylococcal infections, carbuncles, pneumonia, septicæmia and osteomyelitis. In the Mayo clinic (see *C. & D.*, July 24, p. 106) a continuous intravenous drip of normal saline or 5 per cent. glucose containing 10,000 to 20,000 units per litre is administered during a period of ten to twelve hours in generalised staphylococcal infection. Five cases of severe staphylococcal infection, one case of cellulitis of mouth and tongue due to a non-hæmolytic streptococcus, and one case of subacute bacterial endocarditis, were all treated similarly and, apart from the patient with subacute bacterial endocarditis, made rapid and uninterrupted recoveries. No toxic effects were recorded in these cases.

### Economies in Use

The scanty supply of penicillin makes it important to define the kind of infection for which this substance is specially indicated. First priority should be given to its use in the treatment and prevention of chronic osteomyelitis and other persistent staphylococcal infections which cause much invalidity among the wounded of last war. Its value in the treatment of gangrene should also be tested, for McIntosh and Selbie found it superior to the phenamides and aminoacridines in experimental infection with *Clostridium welchii* and *Cl. œdematiens*. Pyogenic (non-meningococcal) meningitis, empyema and pyæmic infection associated with anaerobic streptococci which follows septic abortion or gangrene of the appendix are other conditions in which penicillin should prove useful. The spread from case to case of streptococci and staphylococci which have acquired sulphonamide resistance in localised treated wounds and burns may become rather a worry, as it is in gonococcal infections.

## TANNIC ACID DANGERS

FOLLOWING reports received in this country of military experience in the Middle East, Barnes and Rossiter (*"Lancet,"* August 21, p. 219) carried out, at the request of a committee of the Medical Research Council, work on possible toxic effects resulting from the absorption of tannic acid from a burned surface. Results of injecting solutions of tannic acid and sodium tannate totalling 0.25 mls of fluid into the tail veins of mice and ear veins of guinea pigs showed that tannic acid is almost equally toxic for both animals. The fatal dose is 40 mgm. per kilo of body weight. All recorded deaths occurred within forty-eight hours. It was apparent that much larger doses given intramuscularly could be tolerated. The suggested reason is that tannic acid and sodium tannate, being irritants, cause an acute inflammatory condition which delays absorption.

### Relative Toxicity of Sodium Tannate

This was supported by the fact that sodium tannate, being less irritant than tannic acid and therefore more readily absorbed, was more toxic to rats. Guinea-pigs burned to the extent of a quarter of the body surface, and treated with tannic acid, had a higher mortality and greater loss in weight than similar animals burned to the same extent but not

treated with tannic acid. After intravenous and intramuscular injection of tannic acid into the internal organs of mice, rats and guinea pigs gave a positive tannic-staining reaction.

### Effect on Large Surfaces

Following application of tannic acid to large (one to two-thirds of the body surface) fatal burns in guinea-pigs, the liver, lung, kidney and muscle beneath the burns gave a positive test. With smaller (a quarter of the body surface) non-fatal burns the test was negative for the internal organs but positive for the muscle deep to the burn and the œdema fluid separating the muscle from the burned skin. After intravenous injection of tannic acid to mice severe liver damage was seen histologically. After intramuscular injection of tannic acid or sodium tannate there was slight though definite liver damage. After application of tannic acid to the raw area produced by burning guinea-pigs to the extent of a quarter of the body surface there was slight liver damage, greater than that seen in untreated animals similarly burned. The injection experiments thus make it clear that tannic acid is a toxic substance and experimental evidence suggests that it should not be used indiscriminately on large burned areas.

## TRADE REPORT

quotations for pharmaceutical chemicals, crude drugs and essential oils represent prices for wholesale quantities of standard quality. C.i.f. quotations do not include the war risk insurance and other abnormal charges payable in the present emergency

### Essex Street, W.C.2, September 1

month of September commences in London drug and chemical markets with evidence of any improvement in business. Numerous inquiries are being received, but many of these are for goods no longer on the market. A steady routine continues, however, in replacement for the home consuming industries in this connexion, dealers are kept unusually busy. During the past week changes have been few in number and generally of a minor character. In PHARMACEUTICAL CHEMICALS one advance has been notified, namely, an increase of 1s. per lb. in the price of BISMUTH SUBNITRATE. At the time of going to Press of the Wholesale Drug Trade Association scale for this chemical were not available. It will be published in the next D. at the first available opportunity.

### Crude Drugs

For a single item can be selected from the CRUDE DRUGS section of the markets as being worthy of special comment. Business has remained quiet and of a routine character. CAPE ALOES continues in good demand, but spot supplies are extremely difficult to find: no offers are available from India, one reason suggested being a shortage of labour for collection. BALSAM OF GAIAC remains firm and price unchanged; JAMAICA BALSAM is inclined dearer. Only a small trade is noted in BENZOIN, supplies of which are reserved for the manufacture of British Pharmacopœia preparations. Market prices for small quantities of CAMPHOR imported by the Ministry of Health are still awaited. Inquiry continues for ASCARA SAGRADA but no offers can be obtained from origin. Mombasa CHILLIES is the variety quoted, but no price change has occurred. Sound ERGOT is not easy to come by but some wormy material may be obtained on spot. Spot supplies of IPECACUANA continue scarce. MENTHOL is steady and rather quieter. A fair consuming trade is reported for RHUBARB. Some varieties of SEEDS are easier, consequently lack of interest and absence of demand. It is understood that quotas have now been allocated for SENNA. Inquiry for STROPHANTHUS SEED has been rather better.

### Scammony Root and Ergot

The Directorate of Medical Supplies have informed the Botanical Drug Importers' Section of the London Chamber of Commerce, 69 Cannon Street, London, E.C.4, that they propose to recommend import licences for a limited quantity of Mexican SCAMMONY ROOT during the period ending August 31, 1944, and have asked the Section to arrange with the importers concerned for its importation. The Directorate have also informed the Section that they propose to recommend import licences for a limited quantity of ERGOT OF RYE during the period ending August 31, 1944. For both purposes the Section will be glad to hear, not later than September 8, from firms which imported these commodities during the years 1937-42. By "imported" is meant arranged for the shipment and made payment to the overseas supplier.

### Essential Oils

The schedule of controlled prices for American and Empire ESSENTIAL OILS published last week (p. 233), and repeated in this issue, has attracted a good deal of attention, presumably because of the wide differences in prices between these oils and the "free" oils quoted on the market. It is pointed out, however, that users who are not given a quota sufficient for their requirements may be obliged to purchase the dearer oils until such stocks of these products are exhausted. It should be noted that definite prices have not yet been fixed for oils from Empire sources, but the figures given on p. 255 represent the maximum amounts that will be charged. A schedule of prices of oils and fats allocated to primary wholesalers and large trade users during the four weeks ending September 25 has been issued by the Ministry of Food.

### Exchange Rates on London

During August there have been no changes in the London valuations for the principal foreign currencies. The Bank of England fixed rates include: New York, 4.03 dollars; Montreal, 4.45 dollars; Dutch West Indies, 7.60 florins; Lisbon, 100 escudos; Stockholm, 16.90 kroner. The Chinese National dollar is valued at 3.16d., and Madrid pesetas are at 40.50 to the £ sterling.



## Pharmaceutical Chemicals

**ACETANILIDE.**—Steady and in good supply at 2s. 5d. per lb. for crystals, and 2s. 6d. for powder.

**ASPIRIN.**—Makers' quotations are steady. Quantities of 28 lb. to 1 cwt. are priced per lb. as follows (containers in brackets): 4s. (1-lb.); 3s. 10½d. (4-lb.); 3s. 9½d. (7-lb.); 3s. 9d. (14-lb.); 3s. 8½d. (28-lb.). Prices are net one month.

**ATROPINE.**—Makers' prices per oz. are as follows: ALKALOID, 1 oz., 35s.; 4 oz., 34s. 6d.; 25 oz., 34s. SULPHATE, 1 oz., 28s.; 4 oz., 27s. 6d.; 25 oz., 27s. METHYL BROMIDE and METHYL NITRATE, 1 oz., 65s.

**BARIUM SULPHATE, B.P. (x-ray).**—Lots of 28 lb. to 1 cwt. are supplied at the following rates per lb. (containers in brackets): 1s. 5½d. (1-lb.); 1s. 4d. (4-lb.); 1s. 3d. (7-lb.); 1s. 2½d. (14-lb.); 1s. 2d. (28-lb.).

**BISMUTH CO., PULV., N.F.**—Prices per lb., in quantities of 28 lb. to 1 cwt. are as follows (containers in brackets): 2s. 3½d. (1-lb.); 2s. 2d. (4-lb.); 2s. 1d. (7-lb.); 2s. (28-lb.). Terms net, one month.

**BISMUTH SUBGALLATE.**—Price has been advanced by 9d. per lb. The W.D.T.A. scale will be published at the first opportunity.

**BORIC ACID.**—Makers' quotations are as follows: B.P. granulated, £60 15s. per ton; crystal, £61 15s.; powder, £62 15s. Packed in one-cwt. bags, delivered carriage paid in Great Britain, in one-ton lots and upwards. Commercial grades, £8 per ton less.

**BROMIDES.**—POTASSIUM is quoted by makers as follows (containers in brackets): 3s. 5½d. per lb. (1-lb.); 3s. 3½d. (4-lb.); 3s. 2½d. (7-lb.); 3s. 2½d. (14-lb.); 3s. 1½d. (28-lb.). SODIUM, ¾d. per lb. extra; AMMONIUM, 2½d. per lb. extra; powder, 2d. per lb. extra.

**BRUCINE.**—Quantities of under 25 oz. are priced per oz. as follows: ALKALOID, 1s. 4½d.; NITRATE and SULPHATE, 1s. 3½d.

**CITRATES.**—Following are current prices per lb., in lots of 28 lb. to 1 cwt. (containers in brackets): 3s. 2½d. (1-lb.); 3s. 1d. (4-lb.); 3s. (7-lb.); 2s. 11½d. (14-lb.); 2s. 11d. (28-lb.). IRON and AMMONIUM (SCALES), B.P., is at 3d. per lb. above, and SODIUM is at one penny per lb. below, these prices.

**COCAINE.**—British makers' current wholesale prices are as follows: HYDROCHLORIDE and NITRATE, 25 oz. and over, 35s. 8d.; 16 oz. and less than 25 oz., 36s. 10d.; over 8 oz. and less than 16 oz., 38s. per oz. ALKALOID, CITRATE and SALICYLATE, 25 oz. and over, 39s. 1d.; 16 oz. and less than 25 oz., 40s. 4d.; over 8 oz. and less than 16 oz., 41s. 7d. per oz., 16-oz. packages free, smaller packing extra. The scale of prices applicable to distributors of smaller quantities is as follows: HYDROCHLORIDE and NITRATE, 8 oz., 40s.; 4 oz. and less than 7 oz., 40s. 7d.; 2 oz. and less than 4 oz., 41s. 6d.; 1 oz. and less than 2 oz., 42s. 7d.; ½ oz. and less than 1 oz., 44s. 2d.; ¼ oz. and less than ½ oz., 47s. 3d. per oz. ALKALOID, CITRATE and SALICYLATE, 8 oz., 43s. 5d.; 4 oz., and less than

8 oz., 44s.; 2 oz. and less than 4 oz., 44s. 1 oz. and less than 2 oz., 46s. 2d.; ½ oz. and less than 1 oz., 47s. 9d.; ¼ oz. and less than 50s. 10d. per oz., packages extra. Re Sales are subject to buyers' undertaking not to resell any quantity below current scale. E. prices vary according to destination.

**CODEINE.**—Prices per oz. for small quantities are as follows: ALKALOID.—½ oz., 48s. 1 oz., 45s. 9d.; 2 oz., 44s. 3d.; 3 oz., 43s. 4 oz., 43s. 3d. HYDROCHLORIDE.—½ oz., 1 oz., 39s. 6d.; 2 oz., 38s.; 3 oz., 37s. 4 oz., 37s. PHOSPHATE.—½ oz., 37s. 9d.; 35s. 3d.; 2 oz., 33s. 9d.; 3 oz., 33s.; 32s. 9d.

**DEXTROSE, B.P.**—Quoted at the following rates per lb., in quantities of 28 lb. to 1 cwt. (containers in brackets): 1s. 2½d. (1-lb.); 1½d. (2-lb.); 1s. 0½d. (4-lb.); 11½d. (7-lb.); 11½d. (14-lb.); 10½d. (28-lb.).

**GALLIC ACID.**—Steady at the recent advance to 9s. to 10s. per lb., according to quantity.

**GLUCOSE.**—Bulk home-trade prices per lb. for powdered monohydrate are as follows (containers in brackets): 1s. 1½d. (1-lb.); 1s. (2-lb.); 1s. (4-lb.); 11d. (7-lb.); 10½d. (14-lb.); 10d. (28-lb.).

**GLYCERIN.**—Prices per cwt., for small supplies are as follows: 56-lb. tin, 99s.; 14-lb. tin, 10s. subject to 2½ per cent. discount, twenty-eight days.

**GUAIACOLS.**—CRYSTALS and CARBONATE, changed at from 14s. to 15s. per lb.

**HOMATROPINE.**—Makers' prices per oz. are as follows (prices per gram in brackets): ALKALOID, 1 oz., 97s. 6d.; 4 oz., 92s. 16 oz., 87s. 6d. (4s.). HYDROCHLORIDE, HYDROMIDE and SULPHATE, 1 oz., 75s.; 4 oz., 716 oz., 65s. (3s. 2d.).

**IODINE PREPARATIONS.**—Prices per lb. the home market are as follows: POTASSIUM IODIDE, B.P.—112 lb., 9s.; 28 lb., 9s. 6d. 14 lb., 10s.; 7 lb., 11s. 6d.; 4 lb., 12s.; smaller quantities, 12s. 6d. SODIUM IODIDE, B.P.—28 lb., 9s. 11d.; 14 lb., 10s. 5d.; 7 lb., 12s. 4d. 4 lb., 12s. 10d.; smaller quantities, 13s. IODOFORM, B.P.—28 lb., 12s. 10d.; 14 lb., 13s. 4d.; 7 lb., 15s. 6d.; 4 lb., 16s. 4d.; smaller quantities, 17s. 2d. IODOFORM CRYSTALS 2s. per lb. above powder prices. IODINE RESUBLIMED, B.P.—112 lb., 10s. 4d.; 28 lb., 10s. 10d.; 14 lb., 11s. 4d.; 7 lb., 13s. 1 4 lb., 13s. 9d.; smaller quantities, 14s. 6d.

**MAGNESIUM CARBONATE, LIGHT.**—Home market prices per lb., for quantities of 28 lb.—1 cwt. are as follows (containers in brackets): 1s. 2 (1-lb.); 1s. 1d. (4-lb.); 1s. (7-lb.); 11 (14-lb.); 11d. (28-lb.). Prices net one month.

**MAGNESIUM CARBONATE, HEAVY.**—Makers' quote for the home trade the following prices per lb. in quantities of 28 lb.—1 cwt. (containers in brackets): 1s. 6½d. (1-lb.); 1s. 5d. (4-lb.); 1s. 4d. (7-lb.); 1s. 3½d. (14-lb.); 1s. 3d. (28-lb.). Prices net one month.

**MAGNESIUM OXIDE, LIGHT.**—Makers' prices per lb. for the home market, for quantities 28 lb.—1 cwt., are as follows (containers

ts): 2s. 8d. (1-lb.); 2s. 6½d. (4-lb.); d. (7-lb.); 2s. 5d. (14-lb.); 2s. 4½d.

NIUM TRISILICATE.—Makers quote for the market, in quantities of 28 lb.—1 cwt., (containers in brackets): 3s. 6½d. per lb.); 3s. 5d. (4-lb.); 3s. 4d. (7-lb.); d. (14-lb.); 3s. 3d. (28-lb.).

GALLIC ACID.—Prices were recently ced. For details, see C. & D., August 21,

TONIN.—No change in home-trade prices, of which were given last week (p. 231).

UM BENZOATE.—Supplies are fair; price aged at 2s. 9d. to 3s. per lb., according to ty.

HANILAMIDE.—Current prices range, from 1 to 12s. 6d. per lb., according to quantity.

CHNINE SALTS.—Makers' prices are as s:—

Compound	Under 25 oz.	25 oz. and under 100 oz.	100 oz. and under 500 oz.
d, crystalline ..	s. d. 4 11	s. d. 4 9	s. d. 4 7
d, precipitated ..	4 11	4 9	4 7
e .. .. .	5 2	5 0	4 10
e .. .. .	5 2	5 0	4 10
e .. .. .	5 2	5 0	4 10
ate .. .. .	4 1	3 11	3 9
chloride .. ..	4 8	4 6	4 4
phosphate .. ..	8 5	8 3	8 1
, crystalline ..	4 8	4 6	4 4
, powder, .. ..	4 8	4 6	4 4
, powder, No. 2 ..	3 11	3 9	3 7
ate .. .. .	5 11	5 9	5 7
te, neutral, cryst. ..	4 3	4 1	3 11
te, neutral, powder ..	4 3	4 1	3 11
te, neutral, powder, ..	3 8	3 6	3 4

containers and outer cases free; smaller packages Contracts may be booked for quantities of 100 oz. er, with rise-and-fall clause, for a period of six e. Terms, net thirty days. Wholesale distributors' or small quantities would be dearer.

NNIC ACID (LEVIS EX ETHER).—Steady at gs. to 10s. per lb.

RPINEOL.—For medicinal use only at 3s. 6d. to 4s. per lb.

NILLIN.—Steady; makers quote as follows aterial prepared from clove oil or guaiacol: , 22s. 6d. per lb.; 1 cwt., 22s. 9d.; 56 lb., less than 56 lb., 23s. 3d.

## Crude Drugs

AR.—Business slow at unchanged prices. No. 1, to approved buyers for bacteriol use, 65s. to 70s. per lb.

DER BUCKTHORN.—In consequence of an tigation into the cost of production of sh alder buckthorn bark, the Ministry of ty has found it necessary to increase the of all such bark ordered in future from the e Timber Production Department. At the

request of the Directorate of Medical Supplies, the Department has arranged that the maximum price on a sale by a merchant to a manufacturing chemist of bark made available through the Department shall be 90s. per cwt., inclusive of delivery. This price is subject to revision from time to time. Supplies of the bark are limited.

ALOES.—Cape is extremely scarce and spot quotations are nominal at 82s. 6d. per cwt. There are no offers from origin. Curaçao continues in small request and prices are unchanged.

ANTIMONY.—Supplies are reserved for essential requirements. Price position is unchanged. English minimum 99 per cent. regulus, spot, £120 per ton, delivered; 70 per cent. crude, for the home trade, £100 per ton, delivered.

BALSAMS.—Firm conditions obtain for *Tolu*, spot price of which is unchanged at 13s. 6d. per lb.; *Canada*, 10s. 3d.; *Peru*, 8s. 6d.; *Copaiba* is unobtainable.

BELLADONNA.—Indian leaf may be obtained on spot at from 5s. to 5s. 6d. per lb., according to test. Indian root, from 4s. to 4s. 6d., also according to test.

BENZOIN.—Small trade passing in material for the manufacture of B.P. preparations. Prices range from £22 10s. to £25 per cwt., for fair quality Sumatra block, to £32 for free "almonds."

BUCHU.—There are no offers of either ovals or rounds.

CAMPHOR.—Supplies of both synthetic and natural imported by the Ministry of Supply are available for distribution to approved users. Re-sale prices for quantities under 7 lb. are awaited.

CARDAMOMS.—Steady, with Aleppy seed offered on spot at 6s. 6d. per lb., and greens at 5s. 6d.; split seed, 5s. 6d.

CASCARA SAGRADA.—Many inquiries are being received but there are no offers from origin. No information is available regarding further Lease-Lend supplies.

CHILLIES.—Mombasa may be had on spot at 120s. per cwt.; no other varieties are offered.

CLOVES.—No change in the spot price of Zanzibar at 1s. 5d. per lb.; second-quality, to arrive, 10d. per lb., c.i.f.

COCOA BUTTER.—Maximum official price remains at 1s. 5½d. per lb., ex factory or warehouse. Sales under licence may exceed this figure.

COCONUT (DESICCATED).—Maximum selling price is fixed by Government Order at 49s. per cwt.

DIGITALIS LEAVES.—Spot price of Portuguese leaves is unchanged at 135s. per cwt.; English-grown leaves steady at 25s. 6d. per lb.

DRAGON'S BLOOD.—The only variety available at present is dull Zanzibar drop, for which £21 per cwt. is asked.

ELEMI.—Small quantities of No. 1 gum are quoted on spot at 340s. per cwt.

ERGOT.—Inquiry is moderate but sound material is difficult to find; spot price, if avail-



able, would be 5s. 6d. per lb.; wormy, 5s. Mention is made in the Introduction of a proposal to recommend import licensing of this product.

**GALANGAL ROOT.**—Quoted at 95s. per cwt., in bond Liverpool.

**GUM ACACIA.**—No change in the market position. Kordofan cleaned sorts, spot, 95s. per cwt.; bleached, for shipment, 140s., c.i.f. Talha, cleaned, 55s. per cwt., landed terms.

**HENBANE LEAVES.**—From 250s. to 350s. would be wanted on spot for Indian leaves, according to test. Russian leaves, to approved buyers, 3s. 6d. per lb.

**IPECACUANHA.**—A fair inquiry is reported this week. Spot supplies are scarce, with any available Matto Grosso worth 22s. to 22s. 6d. per lb.; Minas, B.P., 18s. 6d. per lb.; with a lower figure mentioned in some quarters; under B.P. standard, 17s. to 17s. 6d. per lb., according to test. Current prices of EXT. IPECAC. LIQ. are as follows: Winchester, B.P., 1932, under three, 30s. 6d. per lb.; three and under six, 30s.; six and under twelve, 29s. 6d.; twelve and over, 29s. B.P., 1914, under three, 28s. 6d.; three and under six, 28s.; six and under twelve, 27s. 6d.; twelve and over, 27s. per lb.; all prices quoted are on a net basis.

**JALAP.**—Spot price of Brazilian root testing 16 per cent. remains at 105s. per cwt., and that testing 13 per cent. at 95s.

**KAMALA.**—Material testing 5 per cent. ash may be had in small compass at 1s. 9d. per lb.

**LIQUORICE ROOT.**—Spot supplies of unrestricted material are not too plentiful; price of Anatolian natural is nominal at 90s. to 92s. 6d. per cwt. Root of Russian origin may be obtained by approved buyers at 90s. per cwt.

**MENTHOL.**—Moderate demand this week with the price for spot supplies steady at 115s. per lb.

**MERCURY.**—Controlled prices range between £68 10s. and £69 15s. per bottle, for quantities of over 7 lb.

**MYRRH.**—Good-quality Aden sorts would fetch £20 per cwt. on spot; pickings, £10.

**NUTMEGS.**—West Indian, spot, wormy and broken, 1s. 7d. per lb.; sound unassorted, 1s. 10d.

**NUX VOMICA.**—No change on the position as outlined last week.

**ORANGE PEEL.**—Good-quality thin-cut may be had on spot at 4s. 3d. per lb.; bitter quarters are scarce.

**PAPAIN.**—Spot, nominal at 17s. 6d. per lb.

**PEPPERS.**—Maximum prices of whole, not picked over or cleaned, on sale to processors, are: 1s. 4d. per lb. for white, and 1s. per lb. for black, both duty paid.

**PIMENTO.**—Sellers on spot at 1s. 9d. per lb.; shipment unquoted.

**PODOPHYLLUM.**—Untested quoted on spot at 95s. per cwt.; shipment, 72s. 6d., c.i.f.

**PSYLLIUM SEED.**—Small spot supplies of Indian seed are available. Price steady at 1s. 3d. per lb., ex store.

**QUILLAIA BARK.**—Crushed or cut bark, spot, 100s. per cwt.; natural, afloat, 75s., c.i.f.

**RHUBARB.**—Business continues on the line indicated last week, with no quotable change in prices. Rough-round, spot, 8s. per lb.; fl. high-dried, rough-coat, 8s. to 8s. 3d.; slight wormy, 8s.; Shensi pickings, 10s.

**SAPONIN.**—Steady on spot at 7s. 6d. per ex store.

**SEEDS.**—As a result of lack of interest some varieties are marked down. New prices are as follows: CORIANDER.—Indian, 90s. per cwt. CUMIN.—Maltese, spot, 120s.; Indian, 112s. 6d. DILL.—160s., ex wharf Glasgow; 170s., wharf London. FENNEL.—Nominal at 87s. 6d. FENUGREEK.—May be had at 80s. MUSTARD.—Controlled prices unchanged.

**SENNA.**—Prices and supply position unchanged. It is understood that quotas have been notified. Alexandrian pods, medium, 3s. 9d. to 4s. per lb.; Tinnevely pods, hard picked, 11d. to 1s. 5d.; ordinary grade, 10d. to 11d.; manufacturing, 6d. to 7½d. Alexandrian leaves, broken, 1s. 3d. to 1s. 4d.; Tinnevely leaves, No. 1, 9d. to 10d.; No. 2, 7d. 7½d.; No. 3, 5½d. to 6d.

**SQUILL.**—Steady on spot. Portuguese, 8 per cwt.; Indian, 72s. 6d.

**STRAMONIUM LEAVES.**—Indian leaves, spot, 95s. per cwt., ex store.

**STROPHANTHUS.**—Dealers can offer small parcels of 100 per cent. Kombé seed at 10s. 6d. per lb.; larger quantities would be cheap. Inquiry has been rather better.

**TRAGACANTH.**—Market quiet; values steady. The principal medium grades are priced as follows: No. 1, white, £130 per cwt.; No. 2, white, £115; No. 3, white, £102; No. 4, white, £83; pale leaf, £73; amber leaf, £65; dark amber, £50; brown leaf, £45; red-and-brown leaf, £38; red leaf, from £32; hoggy, light from £17; woody and dark, £12.

**TURMERIC.**—Very little inquiry; values unchanged. Madras finger, sound-quality, spot, 60s. per cwt.; wormy, 57s. 6d.

**VALERIAN ROOT.**—Dealers quote Indian root at 95s. per cwt., ex store.

**WAXES.**—BEES'.—Through Association Merchant Distributors of Beeswax only. CA. NAUBA.—Business limited; market quiet. Fatty grey and chalky grey, spot, 425s.; Pri eira, 530s. per cwt.

## Essential and Expressed Oil

**ANISE (STAR).**—Any available small lot would be worth about 70s. per lb.

**BAI.**—Supplies are short; any available on spot would be worth around 12s. 6d. per lb.

**BOIS DE ROSE.**—Any available small spot supplies would fetch about 47s. per lb.

**CAJUPUT.**—Spot price, if available, would be in the region of 15s. per lb.

**CHAULMOOGRA.**—*Hydnocarpus* oil, 1s. 3d. per lb., in bond Liverpool.

**CINNAMON.**—Leaf oil may be had on spot at unchanged price of about 15s. 6d. per lb.

**CITRONELLA.**—Demand continues good. "free" oils: Java, spot, about 25s. per lb.; Ceylon, about 21s. 6d.

**CLOROVE.**—English distillers' prices for B.P. steady at 14s. per lb.

**COCONUT.**—Bulk supplies of refined deodorised are officially quoted at £49 per ton, and refined hardened deodorised at £53, both naked ex works.

**COTTONSEED.**—Bulk supplies are officially priced as follows: Refined edible, £57 per ton; refined deodorised, £58 per ton; both naked ex works.

**CROTON.**—Quoted at 9s. 6d. per lb.

**GROUNDNUT.**—Controlled prices for bulk supplies are as follows: refined deodorised, £58 per ton; refined hardened deodorised, to 40°, £62; refined hardened deodorised, to 50° to 60°, £62; all naked ex works.

**EUCALYPTUS.**—Oil containing from 70 to 75 per cent. cineole would be worth about 6s. 6d. per lb. on spot.

**GERANIUM.**—Genuine North African oil may be obtained at around 85s. to 90s. per lb.

**GINGER.**—English-distilled oil is quoted at approximately 90s. per lb.

**GINGERGRASS.**—Spot price is steady at 6d. per lb., but available supplies are in all compass.

**LEMONGRASS.**—About 15s. to 16s. per lb. is asked for "free" oil.

**NUTMEG.**—Oil from West Indian nutmegs may be obtained on spot at approximately 42s. per lb.

**ORANGE OIL.**—Official price of refined deodorised is at £55 per ton and that of refined hardened deodorised at £58 per ton, both naked ex works.

**ORANGE KERNEL.**—Bulk supplies are officially priced as follows: Refined deodorised, £49 per ton; hardened refined deodorised, £53 per ton, both naked ex works.

**ROSEHOUILL.**—Good-quality oil, if available on spot, would be worth about 75s. per lb.

**ROSEHYROYAL.**—Any available spot supplies would be worth about 40s. to 45s. per lb.

**ROSEPEPPERMINT.**—Chinese, if available, would be worth about 110s. to 115s. per lb.

**ROSESTITGRAIN.**—In very poor supply; spot price would be in the region of 25s. per lb.

**ROSESEED.**—Bulk supplies are controlled at 25s. per ton, naked ex works.

**ROSEMARY.**—If available on spot would be worth about 16s. per lb.

**ROSEPIKE.**—About 32s. 6d. per lb. would represent the spot price of any available supplies.

**ROSEHYME.**—Supplies are extremely short; 1-grade oil would be worth about 25s. per lb.

**ROSEETIVERT.**—Spot, approximately 95s. per lb.

## Controlled Essential Oils

As noted last week, prices have been announced for a number of American and Empire oils imported under the essential oils scheme. The controlled prices, as given below, are prices to consumers, in original packages, free delivered to buyers' warehouse. Where broken bulk occurs necessitating repacking, the agreed margins which have been fixed and which appear in Circular No. 1, paragraph 2, are additional to the prices set out below.

### Lease-Lend Oils (American):—

	s.	d.	
Cold pressed lemon ..	18	10½	per lb.
Distilled lemon ..	14	4	" "
Peppermint ..	36	4	" "
Grapefruit ..	18	2	" "
Sassafras ..	11	1½	" "
Caraway ..	20	4½	" "
Wormseed ..	15	0	" "
			(plus purchase tax).
Cedarwood ..	3	1	per lb.
Nutmeg ..	23	3	" "

### Oils from Empire sources:—

The following maximum prices have been fixed:

Clove, Zanzibar ..	5	6	per lb.
Citronella ..	5	0	" "
Lime ..	46	3	" "
Lemongrass ..	5	6	" "

It is understood that the additional prices for re-packed smaller quantities than original drums are as follows: For oils packed in 1-cwt. drums, 1s. per lb. extra; in 56-lb. drums, 1s. 3d. per lb. extra; in 28-lb. tins in cases, 1s. 6d. per lb. extra; in 14-lb. tins in cases, 1s. 9d. per lb. extra. The drums and wooden cases must be returned and allowances of 10s. 6d. for 1-cwt. drums; 6s. 6d. for 56-lb. drums; 4s. for 28-lb. cases; and 3s. for 14-lb. cases will be made.

### Canadian Soap Business Increased.—

Canadian manufacturers of soaps, washing compounds and cleansing preparations report a substantial increase in business during 1942. Production in 119 factories amounted to \$29,252,469 during the year, exports amounting to \$1,724,443. The value of toilet preparations produced during the year was £11,813,999. Exports of these products were valued at £463,505.

**The Books Target.**—The national book collection for salvage for the year was fixed at 50 million volumes. So far the collection totals 42 millions. Your old trade price lists count as volumes. You can discard them now that the C. & D. Price List of Medicinal Proprieties sold over the Chemist's Counter is available from The Publisher, THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2, price one shilling, post free.



## MISCELLANEOUS INQUIRIES

**Rideal-Walker Figure.**—*C. P. L.*—The Rideal-Walker coefficient of liquor chloroxylenol, B.P.C., ranges from 4.0 to 4.5.

**Cine Film Cement.**—*F. W. W.*—We think one of the following formulas will meet your requirements for a cine film cement:—

I			
Glacial acetic acid	..	..	1 part
Flexile collodion	..	..	4 parts

II			
Glacial acetic acid	..	..	1 part
Amyl acetate	..	..	2 parts
Acetone	..	..	2 parts

III			
Acetic ether	..	..	3 oz.
Acetone	..	..	1 oz.

Dissolve in it one foot of film.

**Rubber Latex.**—*H. L.*—Books on rubber latex include "Latex in Industry," by Royce J. Noble, published by "Rubber Age," 250 West 57th Street, New York, 1936. This is a first-class book on the varied applications of latex to industrial products and contains a comprehensive bibliography. Another book by the same publishers is "Latex and its Industrial Applications," by F. Marchionna, 1933. The following book is a very comprehensive one, "Chemistry and Technology of Rubber Latex," by C. Falconer Flint, published by Chapman & Hall, Ltd., 11 Henrietta Street, London, W.C.2, 1938. There is also available an English translation of Boemegg's "Latex: Occurrence, Collection, etc.," published in 1930 by The Chemical Catalog Co., 419 Fourth Avenue, New York.

**Citric Acid.**—*M. V.*—This may not be sold otherwise than by retail except to persons holding a licence. "By retail" is defined as being sales of citric acid of not more than 1 lb. net weight to a person buying otherwise than for the purpose of re-sale or otherwise than for a manufacturing purpose. So far as retail prices of both citric acid and tartaric acid are concerned, these would presumably have to be calculated in accordance with the Prices of Goods Act, 1939, as both substances could be classed as "drugs" and therefore are price-regulated articles. This means that no more profit could be made on a transaction than was made before August 1939, the profit being calculated in actual values and not as a percentage. It follows, therefore, that the prices although not "fixed" are indirectly controlled by the Prices of Goods Act.

**Hair Cream.**—*C. D.*—You should proceed on the same lines as formerly, but use a vegetable oil in place of the liquid paraffin. A representative formula is:—

Vegetable oil	..	..	..	160
White wax	..	..	..	8
Spermaceti	..	..	..	2
Borax	..	..	..	1
Water	..	..	..	1

Liquefy the wax and spermaceti in the water, dissolve the borax in the water and water both are at the same temperature mix and shake into a cream. An anti-oxidant, such as Nipagin 1-500, should be added. The consistency of the cream may be varied by adjusting amounts of oil and water. Castor-oil cream can be made as follows:

Castor oil	..	..	..	200
White wax	..	..	..	10
Cetyl alcohol	..	..	..	2
Borax	..	..	..	1
Water	..	..	..	1

Spermaceti may be used in place of cetyl alcohol if the latter is not available. The preservative is not necessary.

**Medicated Lip Salve.**—The production of a medicated lip salve to be sold out of a quota would not be without difficulty. It would have to be established beyond doubt that the lip salve was a bona-fide medicinal preparation. In our opinion this would preclude the introduction of cologne as this addition would immediately bring it out of the medical class into that of a toilet preparation, in which case quota restrictions would apply. It should also be borne in mind that if the lip salve is sufficiently medicated to bring it outside the description of a toilet preparation it would presumably be a substance recommended as a medicine and therefore within the scope of the Pharmacy and Medicines Act, 1941.

**Depilatory.**—*A. D.*—The following is presumably the formula you have in mind:

Ceresin	..	..	..	1 oz.
Yellow beeswax	..	..	..	2 oz.
Resin	..	..	..	6 oz.
Alkanet root	..	..	..	2 dr.

Digest on a water bath for an hour, strain and perfume. The wax is melted and poured over the part to be denuded and allowed to cool. The hair becomes embedded in the wax, and on raising the end and sharply pulling the strip off the skin the hair comes with it. This method is somewhat painful, but not so severely so, and is quite effective.

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<b>Bronchial Emulsion</b>	-	-	-	<b>4 oz. 6/-, 8 oz. 9/-</b>
<b>Chest and Lung Balsam</b>	-	-	-	<b>2½ oz. 7/3, 5 oz. 10/3</b>
<b>Chilblain Cream</b>	-	-	-	<b>¾ oz. jars 5/-</b>
<b>Cough Syrup, Famous Creosoted</b>	-	-	-	<b>3 oz. 8/6</b>
<b>Lung Tonic</b>	-	-	-	<b>2½ oz. 7/3, 5 oz. 10/3</b>
<b>Vapour Rub</b>	-	-	-	<b>¾ oz. jars 4 6</b>

**All Plus Purchase Tax**

Also Camphorated Oil      2 oz., 4 oz. Bottles  
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Piperitone 90/95%  
Oil Euc. Phellandra

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**(WHOLESALE ONLY)**

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**Fifty Years**  
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services are available and  
at the disposal of consumers.

## BRITISH ALKALOIDS AND FINE CHEMICALS

# WHIFFEN

## BROMIDES AND IODIDES

MERCURIALS • ATROPINE • CAMPHOR  
NICOTINE • NICOTINIC ACID • SALICIN  
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INCORPORATING GEORGE ATKINSON & COMPANY, ESTABLISHED 1654

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## RIDDOBRON INHALATION TREATMENT FOR ASTHMA

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### SPASMOPURIN SUPPOSITORIES

For Asthma associated with tightness of the chest accumulations of phlegm and difficulty in expectoration.

### RIDDOSAN INHALANT

For Asthma associated with Bronchitis, acute and chronic catarrhs of the upper air passages, Bronchial congestion, accumulations of phlegm and difficulty in expectoration.

Only RIDDELL INHALERS CAN GIVE THE BEST POSSIBLE RESULTS FOR INHALATION



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AXTELL HOUSE, WARWICK ST., LONDON, W.1

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### CLINICAL PRODUCTS LTD.

2 THE GREEN, RICHMOND, SURREY

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"THE CRISIS IN A WOMAN'S LIFE"  
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is an invaluable creator of additional sales for Menopax. It deals informatively with the symptoms of the Menopause — a problem which interests all women of middle age.

As an "informative" book, it should be available to women who ask for it, and so chemists who stock Menopax should, without delay, write stating number of copies required direct to Clinical Products, Ltd.

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*for Women of Middle-age*

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THE AYRTON SERVICE has stood even the test of war. Controls? shortages? delays? OF COURSE!—but all our customers have been 'kept going' with the essentials of trading pharmacy. Lucky is the chemist who is backed by a good supply house, particularly if it is all-embracing with seventy-five years' experience—like AYRTONS

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# AYRTON SAUNDERS & CO. LTD.

*In these trying times —*



## INDICATIONS

General fatigue and debility, hypertension, infective conditions, night blindness.

## PACKINGS AND PRICES

80 tablets..	..	..	3/4½
250 tablets..	..	..	9/6
1000 tablets..	..	..	30/7½

(Including Purchase Tax) **PATA** List

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## CHLOROPHYLL TABLETS

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*Who said  
you can't  
get  
CURICONES?*



Make a note of this now. You CAN get "Curicones." So there is no need to disappoint your customers—or lose money yourself. It is true, of course, that only two sizes are now available, the 5/- size, and the large 24/- size. Your Wholesaler should have both sizes in stock. Delay may occur in delivery, so don't wait until you run out of "Curicones" before re-ordering. Staff shortage is now everybody's problem—and that includes your Wholesaler. He may not be able to attend to your orders so promptly as hitherto but he CAN supply you with "Curicones."

# CURICONES

—the remedy for Rheumatism and kindred troubles.

*are still obtainable*

Small  
size

5/-

Remember, "Curicones" is a P.A.T.A. line showing 33½ per cent. profit, nationally advertised and recommended by the medical profession.

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size

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*From your Wholesaler*

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## PARMINT COUGH SYRUP

On its new improved formula the ready-mixed Parmint Syrup needs a dosage for adults of only 1-2 teaspoons.

The bottle therefore gives nearly twice as good value as before.

All our Press advertisements now mention the retail price of both the ready-mixed Parmint Syrup (1/5) and the good old Concentrated Parmint Double Strength (3/1½).

Make sure you have a stock of both.



and

**PATA**

INTERNATIONAL LABORATORIES, LTD.  
CHARLBURY, OXFORD

## TRAGACANTH POWDER OUR "SOJ" BRANDS

ARE ESPECIALLY GRADED FOR ALL USERS  
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WE ALSO STOCK KARAYA POWDER

Samples and Prices on Application

**SALEM** (Pulverised Tragacanth) LTD

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TELEPHONE: LONDON WALL 1910

Living Profit Guaranteed 46 Years on the P.A.T.A.  
Awarded Certificate of Merit at the Tasmanian  
Exhibition, 1891

**KEARSLEY'S** (150 Years' Reputation)  
**WIDOW WELCH'S** Original  
**FEMALE PILLS**

9d. **BOX PROFIT** by ordering 1 dozen 2/10 size Bonus box given on every dozen (13). It pays to push this size. Order from your Wholesale House N.B.—These Pills do not contain any deleterious or prohibitive drugs, and can be sold with safety.

**C. & G. KEARSLEY, LTD.**

71 DARTMOUTH RD., FOREST HILL, LONDON, S.E.2  
Established 1787 In the Reign of King George II

# *Ration*

YOUR STOCKS OF

## **NEURO PHOSPHATES**

(ESKAY BRAND)

Owing to various shortages and increased prescribing, the general demand for Neuro Phosphates greatly exceeds the supply, and we have been obliged to ration all customers, both Wholesalers and Retailers.

We express our regret for the unavoidable inconvenience occasioned by short supplies, and would ask Retailers to co-operate with us by reserving their stocks for the purpose of meeting prescriptions.

The Retail  
Price is

# **4/6**

per 8-ounce  
Bottle

INCLUSIVE OF PURCHASE TAX

*Winchester Quarts are no longer available*

## **MENLEY & JAMES LIMITED**

123 COLDHARBOUR LANE, LONDON, S.E.5



# Quart Measures in Pint Pots!

How to let the people know all about 'ASPRO', its service—safety—the quick help it renders, in limited space. That has always been a problem. A kindly advertising critic, remarking a few years back that 'ASPRO' had been "put on the map" in record time, commented that our advertisements were "crammed in with a shoe horn"—they were over-filled with interesting facts. Now our problem is intensified ten-fold by the reduced advertising space available in the Press. Nevertheless **these small advertisements are doing a grand job, maintaining and fostering the vast 'ASPRO' goodwill.**

The Chemist has his own problem. Although in many cases his display space is unchanged, he has to determine how to put it to the best possible use, both for the present and for the future goodwill of his business. It is worth remembering, therefore, that an 'ASPRO' show not only qualifies for bonus terms, but **capitalises and preserves for you the goodwill of the leading medicinal line.**

Fortunately, we are still able to supply a display or sticker on request, but it has become a matter of vital concern to the Nation that every piece of display material should be made to last. No more can be made or printed, so please use your present display as long as possible. When it is **really worn out**, put it with your other salvage and write us for a new one.

**We have a limited supply of chemists  
2-oz. bags available at 7/6 per 1,000.**

# 'ASPRO'

Made in England by  
**ASPRO LTD., Slough, Bucks.**  
Telephone: Slough 22381

**ASPRO**  
REG. TRADE MARK

"ONE OF OUR SPECIALITIES

## HALIBUT LIVER OIL CAPSULES



and **PATA**

*We can recommend  
and still supply*

\*

IN BOXES OF 24 9/- doz.  
" " 60 18/- "

**LOFTHOUSE & SALTMER, Ltd**  
Manufacturing Chemists  
**HULL**

## THE CHEMISTS SEIDLITZ



and

**PATA**

G.O. Lemon Flavoured Sweetened  
Seidlitz Powders

War Retail Price 4d., 5d. & 6d.  
(including tax)  
ord. ex.s and D.S.

*Through Your C.F. wholesaler or direct from*

**MILNER & COKE LTD.**  
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**YOU CAN RECOMMEND**

**SCOTT'S**  
**M.O.F.** WITH CONFIDENCE  
MIDLOTHIAN OAT FOOD

M.O.F. has been known to the Medical Profession for many years as a splendid body-building food that is processed from the finest Scottish Groats.

M.O.F. is highly recommended for Expectant and Nursing Mothers, Weaning Infants and for Invalids, great care being taken in its

manufacture to ensure that its natural Vitamin B content is preserved.

**A DOCTOR WRITES:** "M.O.F. is an ideal food both before and after the arrival of the baby . . . It promotes lactation and helps to ensure a rapid and satisfactory convalescence." M.D., F.R.C.S.E.

RETAIL PRICE **1/9** per 1 lb. tin  
**FOR EXPECTANT AND NURSING MOTHERS**  
**WEANING INFANTS AND INVALIDS**

*Specially processed from the finest*

*Scottish Groats by* **A. & R. SCOTT LTD.,**

**COLINTON, MIDLOTHIAN, SCOTLAND**

**SCOTT'S**  
**M.O.F.**  
MIDLOTHIAN OAT FOOD

The Certificate of the Royal Institute of Public Health & Hygiene has been awarded in respect of M.O.F.



**FOR SALE**

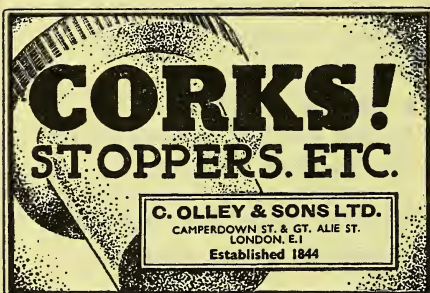
- 100 gross 4-drm. Square Perfume Bottles.  
 100 „ 4-drm. Round Perfume Bottles.  
 100 „ 5-drm. Round Perfume Bottles.  
*All with Bakelite Caps.*

- 100 gross Screw Neck 1-oz. Ribbed Ovals.  
 100 „ Cork Mouth 1-oz. Vials.  
 100 „ 1-oz. Cork Mouth Panels.  
 500 „ 2-oz. Squat Opal Jars with Caps.  
 500 „ ½-oz. White Flint Jars with Caps.  
 500 „ 1-oz. Tall White Flint Jars with Caps.  
 500 „ 1-oz. Squat White Flint Jars with Caps.  
 500 „ 2-oz. White Flint Jars with Caps.  
 500 „ 4-oz. White Flint Jars with Caps.

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 OF PACKING MATERIALS PURCHASED FOR CASH



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- TINTEX revives old and faded clothes. Saves buying new.
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- TINTEX is supplied in 16 shades.

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**THE HOME DYE**

*tints as you rinse*

WHITE. A laundry Blue for Woolens, Silks and Textiles.  
 Also TINTEX Stocking Dyes in 3 shades: in 4½d packets

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 SAN TOWELS

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Tastefully finished Black and Red, at 24/- gross—Reductions for quantities. Special shade to suit customers' own requirements for quantities. Sample free on application. Ashley Weeks, Ltd. (Dept. D), 165a-165b Mitcham Road, Tooting, S.W.17. Tels: Str 2196—5355.

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*Artists in the Production of Fine Labels*

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 NEW REGULATIONS—Send 6d. for complete sample range.



Largest Selling Asthma Tablet in the World—for the best of reasons  
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YEAST FOR ANAEMIA

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GUM KARAYA and GUM ARABIC  
"ECONOMIC" Artificial Glycerine  
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Laxative · Comforting · Digestive

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"The Liver Pill You Need"

For Sluggish Liver, Constipation, Biliousness, Dizziness  
Sick Headaches, Offensive Breath, Coated Tongue  
The Laxative you can confidently recommend

**P.A.T.A.**

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T. FULFORD CO. LTD. (of Canada), 8 Royston Park Road, Hatch End, Middlesex



# Both rapid Sellers

For the new season it will pay you to concentrate on these two Meggeson winners. Both established in public confidence, demand for them is on the increase because of the National Advertising behind them.

Supplies are NOT unlimited and orders can, in fairness, only be dealt with in strict rotation. Think ahead, therefore, and place your orders now.

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A line which needs no introduction. Pharmaceutically sound, long established, well advertised.

Wholesale 10/- doz., plus tax

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Retail 1/6 inc. tax

Retail 3/10 inc. tax

## MEGGEZONES

Built on a sound and proven formula, Meggezons are now the leaders in their field.

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★ BOTH PROFIT MAKERS  
★ BOTH ADVERTISED

# MEGGESON

& CO. LTD., LONDON, S.E.16

# The CHEMIST AND DRUGGIST SUPPLEMENT

28, ESSEX STREET, LONDON, W.C.2

SEPTEMBER 4  
1943

This Supplement is inserted in every copy of The Chemist & Druggist

Advertisements in this supplement must be prepaid and should reach us not later than WEDNESDAY week of issue. Box Office numbers cost 1/-. Late advertisements will be held over to following week.

## EMULSION WAX F.M.C.

Guaranteed Free from Petroleum Products. No Oil required. Stable White Emulsions in Water only. Prepared from high-grade non-injurious material. Prices 9/6 per lb. Carriage paid. Minimum 7 lb. Special quantities for Distributors.

Essential Oils, Waxes, Chemicals, Disinfectants, Gels, Gelatine Powder, Gums, etc., etc.

THE FAYLENE MANUFACTURING COMPANY

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Phone: Leeds 22594.

## SPECTACLE FRAMES

We can supply GOOD QUALITY IM-SHELL FRAMES in various shapes and colours, with reinforced sides and mitred joints. Regular deliveries, moderate prices. LANDAU, 18 Clarendon Court, Staverton Road LONDON, N.W.2

10 Gross 2-dram Perfume Bottles, 1/2 oz. wide mouth, 1, 2 oz. sprinker neck, 4 oz. wide mouth. Pill Bottle with caps, 4 oz. flat and square, 1/2 metal caps. 1/2 oz., 1 oz. Amber Squat Jars. 2 oz., 5 oz., and 10 oz. Haircream Jars, small large quantities.

ADA & CO. (London), Ltd.  
25 Woodberry Grove, London, N.4.

Mercurium and Tin Foil, range of samples, 6d. "Rabril" Powder for Setting Lotion, Hair Cream, etc., 14/6 per lb. Substantial sample. We can offer Gum Tragacanth, Perfume Essences, Colourings, Beeswax Substitute, Citric Acid, Shaving Cream, Empty Bottles, Jars, Hair Slides, Grips and Curlers, Small Jars, Lotion Sprays. Send us your inquiries. WOOD & SON, Syke Works, Cleckheaton.

## LIPSTICK MOULD FOR THE SMALL MANUFACTURER

Cast 12 11-mm. chisel end Lipsticks. A perfect every time. One mould and full instructions. C.O.D. or C.W.O. Sample casting and stick Container, list, etc., 1/- post paid. Output limited, all orders acknowledged and in strict rotation. Lipstick colours, all shades, from - lb.

EIGHTON (Agencies) CO., 'la Queen's Trade, Muswell Hill, LONDON, N.10.  
Telephone: Tudor 2174.

ERNEST J. GEORGE & CO  
329 HIGH HOLBORN, LONDON, W.C.1

'Phone: Holborn 7406/7

and

35 BRIDGE STREET, WALSALL, Staffs.

'Phone: Walsall 5948

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FOR THE

S.M.C., B.O.A., and N.A.O. DIPLOMA Examinations  
Particulars:—

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F.I.O., F.C.O., M.P.S.  
50 HIGH STREET, BARNET, LONDON, N.

Hair-cream Jars, 48/- gross.

4-oz. Panels, 36/- gross.

2-oz. Panels, 30/- gross.

1-oz. Vanishing Cream Jars, 30/- gross.

5 gross Lots of a kind Carr. Paid, C.W.O.

Prompt despatch. Samples, one of each, 1/6.

E. CHARLTON, KING ST., FARNWORTH

Panel Bottles, 1 oz., 24/-; 2 oz., 27/-; 4 oz., 31/- Tall Type Round Jars, 1/2 oz., 21/-; 1 oz., 27/-; 2 oz., 30/- Squat Jars, 2 oz., 36/- Fancy Ridge-sided Bottles, 2 oz., 33/- All priced per gross. All with metal caps, 1/- per gross extra, cartons returnable. Carr. Paid. H.S. BOTTLE CO., 29 Sherwood Hall, East End Road, LONDON, N.2.

"MANHATTONE" Regd. FACE POWDER  
In Natural, Rachel, Peach and Suntan 11/3 doz. + TAX  
An Attractive 2-oz. Pack

"MANHATTONE" TALC  
6-oz. Cartons, nicely perfumed (3-doz. outers) 11/3 doz. + TAX

LAMBSWOOL PUFFS  
Extra Quality  
Lovely Pastel Shades 12/- doz. + TAX

LIPSTICK CASES. 11 m.m.  
Strong Cellulose Finish 36/- gross TAX FREE  
Carriage Paid on all Orders Value £5 (inc. Tax.)  
ROLYAT PERFUMERY CO.  
445 Bury New Road, SALFORD, 7



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### MESSRS. HOLMES, MARTIN & CO., LTD.,

of Sicilian House, Sicilian Avenue, London, W.C.1, wish to apologise to any of their numerous clients who are having to wait for the despatch of their goods which are delayed through immense pressure of orders and difficulties in production. Any client who has already sent a remittance and wishes to have it returned may do so on receipt of a cancellation order. It is understood that any such cancellation is without prejudice and that the client loses any claim to delivery.

### EMULSIFIED WHITE ANTISEPTIC OINTMENT (vanishing type)

supplied in customers' own containers at 5/10d. per lb. including Purchase Tax, free delivery, minimum 28 lb. lots. Special prices for larger quantities. Tested first-class quality, manufactured under scientific control. Formula and samples sent (2-oz. jars) against 1/6d. stamps, also attractive 2-oz. and 1-oz. jars available. State quantities required. Your cost of 1-oz. jars filled ready for sale, approximately 8d., including tax.

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22 High Street, KINGSTON-ON-THAMES  
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London Firm have for Disposal a large quantity 2½ oz. Bottles, complete with screw caps and corrugated cartons (to hold 36 bottles); 15 oz. Bottles, caps and cartons (to hold 12 bottles); also 80 gallons of White Capping Solution. For details, please write CDB/192, London Office of this Paper.

**Puffs, Single, in two sizes; Double Puffs;**  
**Puff in Pouchet; Handkerchief Puffs in Satin and Lace.** Send 20s. for set of samples.

**SAMSON SHOPKEEPERS' SUPPLIES LTD.**  
107 Southgate Street,  
Gloucester.

A full and attractively printed series of Toilet Preparation Labels and Packages, comprising: Talc Boxes, 56s. gross; Powder Boxes, 30s. gross, 1 oz.; Vial Drums, 30s. gross; 4 oz. Cellophane Bags, 20s. per 1,000; Full Label Range, 10s. 1,000 assorted; 4 oz. Flat Card Boxes, 1s. doz.; Special Powder-tight Printed Sachets, 18s. per 1,000; Rouge, Rinse Envelopes, 17s. 6d. per 1,000; Shampoo Envelopes, 20s. per 1,000; Showcards for same 2d. each. Dyes and Perfumes. Send P.O. Is. for range of samples to

**J. FRANCIS SMITH**  
10 Grove Street, Morecambe

## EMULSIFYING WAX

prepared from non-petroleum, no injurious materials, makes attractive emulsion and cream base with addition of water only. Sample 1 lb. at 10/- cash pd. or 7 lb. at 9/- per lb.

**P. R. LABORATORIES**  
56 Theobalds Road, W.C.1

### 1000 GROSS CARDBOARD LIPSTICK REFILL CASES

Various colours 11 mm., also quantity of Roux Talcum and Face Powder Boxes. CDB/192 London Office of this Paper.

**Spermaceti.** 3 60-lb. Cases. Offers required. Pea Crystals, Sodii Carb., 27/6 cwt. Featherly Crystals, Sodii Sesquicarb., 30/- cwt. Strong Cellophane Tubes for Lipstick Refill 20/- gross.  
**Willson's, 102 Carr House Road, Doncaster**

### PUSH-UP 11mm. CONTAINERS

**Strong Tubular Lacquered Cardboard Case** Will fit Standard 11 mm. Lipstick Refill. Very attractive Dual Colours, Three Piece Patented Push-up device. Structure holds contents firmly, making a practical and very durable container, a real business pull. Don't miss this opportunity of securing stocks of a really first-class Case as is not being used by leading manufacturers. Price 50/- per gross. 48/- per gross 5 gross lots. Not subject to Purchase Tax. Immediate delivery. Money refunded if not satisfied. Sample sent on receipt of 6d. stamp. **VICTORIA TRADING CO., 5a Allington Street, LONDON, S.W.1**

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### MYERS OF OLD ST. THE PHARMACY FITTERS

ALL PHARMACY FITTINGS. New and Second. From the single unit—to the complete Pharmacy. Write, Phone or call  
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**DRUG Stores and Surgical Business for sale.** Small living accommodation behind shop in central position. Business £2,500. Will sell profit if required; opposite new site of Central Station upstairs Let off in Flats. Good rental. Will let £3 per week and rates. Only wants seeing. Address 120 Central Drive, Blackpool.

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Employment of Women (Control of Engagements Order 1942

With certain exceptions, women over 18 and under 41 years of age seeking Employment and Employers seeking to engage such women are now required to do so only through the local office of the Ministry of Labour and National Service or an approved employment agency.

RETAIL (HOME)

PSULE (Gelatine) Manager wanted, must understand complete manufacture for supervising plate works. Flashlight Products Co., 80 Lanark Rd., W.9.

CHEMIST required for Pharmacy Department in modern Store. Either sex, exempt military service. Salary up to £400. 433/873, London Office of this Paper.

ANAGER, Experienced, for South London Pharmacy. Living accommodation. 443/310, London Office of this Paper.

PERMANENT Registered Chemist Required, Active Male or Female, exempt military service, to Dispensing, Prescribing, Windows. Quick turnover trade in family business. Flat available if desired. Give particulars of experience, references, free, and salary required in first letter. Lander & Co., Ltd., 200 Normanton Road, Derby.

ARMACY. The Royal Arsenal Co-operative Society, Limited, has a vacancy for a Qualified Dispenser. Progressive position. Good conditions of employment and no Sunday or holiday duties. Apply in writing, stating age and experience, position in the National Service or Registration for Employment Order Acts, and salary required, to the Manager, Royal Arsenal Co-operative Society, Ltd., 113 Powis Street, Woolwich, S.E.18. Please enclose "Pharmacy."

QUALIFIED Assistant required. Active and a quick Dispenser. Good salary offered. Full particulars in first letter. 444/345, London Office of this Paper.

QUALIFIED Lady or Gentleman to manage Branch, London, E. Please state salary required. 443/338, London Office of this Paper.

QUALIFIED Manager required for Branch Shop. Permanency if suitable. Minimum salary £100. Also Qualified Locum. State dates available. Walsall & District Co-operative Society, Ltd., 100 George Street, Walsall.

EXPERIENCED BRITISH CHEMISTS have Vacancies for qualified Managers and Assistants, male or female, in the Midlands and North of England. JOSEPH WHITES & TAYLORS are requiring Pharmacists, male or female, as Managers for Branches at Camberley, Bournemouth, Portsmouth, South, Gloucester, Evesham, to replace staff called up for military service. Applicants can be interviewed at or near home towns if desired. Particulars to Retail Drug Department, 70 Ball Bridge Road, S.W.1.

QUALIFIED Assistant, Male or Female, required at once. Easy hours, no Sunday duty. Salary to energetic and adaptable person. Chemists, Ltd., 110 Seven Sisters Road, N.7.

QUALIFIED Assistant required at once for Counter and Dispensing. No Sunday duties. Salaries and wages to Harold Miller, Ltd., 98 Street, Cheltenham.

WHOLESALE

SULE Maker required; permanent position; able to compound own formula preferred, or willing would be given to suitable applicant. John Gordon & Co., Ltd., 62 Newington Valley Road, Peterborough.

FRONT-RANK Manufacturing House now extensively engaged on work of national importance requires Pharmaceutical Chemist for research work and planning in connection with post-war activities. Advertisers possess world-famous reputation for toilet articles of the finest grade and this opening provides an exceptional opportunity for a first-rate man to establish himself in a highly responsible capacity. All replies will be acknowledged and treated as strictly confidential. 443/335, London Office of this Paper.

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MEDICAL Representative (either sex) required, to call on doctors, hospitals and chemists in Scotland, preferably a native, not liable for military service. No selling. Knowledge of physiology and/or biochemistry necessary. Salary according to qualifications. Send full details of education, career, etc., to Home Sales Manager, Organon Laboratories, Ltd., Brettenham House, London, W.C.2.

REPRESENTATIVE wanted, with good connexion among Chemists, retail and wholesale, Yorkshire, Northumberland and Durham, pharmaceutical products, nationally advertised, old-established house. Salary, expenses and commission. Permanent post experienced and energetic man. Write full particulars. 443/312, London Office of this Paper.

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WANTED, Saccharin Tablets, any quantity bought. L. H. Smith, 127 Cheviot Gardens, London, N.W.2.

WANTED FOR SPOT CASH, National, Remington and Gledhill Cash Registers, all sizes, age immaterial, any quantity entertained. Amalgamated Business Machines, Ltd., 64 Mortimer Street, W.1. Phone: MUSEUM 0941. Repairs, Sales, Exchanges.

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WANTED, "Inecto," any numbers acceptable. Send particulars to 20 Cecil Court, Charing Cross Road, London, W.C.2.

WANTED, Wilkinson Ointment Mill, stainless steel pan. 15/20 gallons. 444/341, London Office of this Paper.



## SITUATIONS WANTED

2/6 for 18 words or less, 1d. for every additional word.

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**C**HEMIST (Lady, exempt) requires post; institution preferred. Midland area or outside London; permanent. Good testimonials. Hospital experience. 444/344, London Office of this Paper.

**D**ISPENSER Dresser, married, over military age, Doctor, Medical Aid or Institution; permanent or locum. Bryan, Highlands, 8 Donnington Road, Lidden, Penzance.

### LOCUMS SEEKING ENGAGEMENT

**L**ADY Dispenser-Secretary desires "locums"; Hall certificate; experienced doctors and hospitals. Permanency considered. Roynon, 112 Maryland Road, N.22. (Bowes Park 1320.)

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**A**GENT seeks established Manufacturer making high-grade Products, non-technical, in demand; wholesale and retail chemists, etc. Bristol, south-west area. Sole Agency. 444/343, London Office of this Paper.

**N**ORTHERN Ireland. Old-established Agent, excellent connection Chemists, desires one other reputable house. Going London shortly; arrange interview. 444/339, London Office of this Paper.

**P**HARMACEUTICAL CHEMIST, many years' experience in manufacturing of pharmaceutical preparations, exempt, desires change. 443/319, London Office of this Paper.

**S**ALES Manager to leading manufacturers of Medicinal and Toilet Products will shortly be available for new appointment. Many years' executive experience in pioneering new products (now national sellers), sales management, advertising, market research, medical and dental propaganda, packaging and display. Experienced Accountant and Chartered Secretary. Widely known throughout chemist and allied trades and personally known to principals of leading wholesale, multiple, co-operative, departmental and chain store companies. Not liable military service. Replies in confidence. 443/336, London Office of this Paper.

### AGENCIES

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**C**OUNTY or Area distributors calling upon retail chemists, and capable and willing to carry an additional product, are invited to write for further details. The advertisers are well-known Manufacturing Chemists and the product is in good demand throughout the country. Please state area covered, together with details of existing lines handled. 443/334, London Office of this Paper.

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**E**STABLISHED 20 Years, no premium, low wartime rent. Chemist's Shop to let, good position High Street, Camden Town. Unusual opportunity for man with nominal capital. Apply, Owner, 20 William IV Street, London, W.C.2.

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### KENT COUNTY COUNCIL

LEYBOURNE GRANGE COLONY FOR MENTAL DEFECTIVES, WEST MALLING

#### APPOINTMENT OF PHARMACIST

Applications are invited for the permanent position of non-resident qualified Pharmacist (male or female) at the above-mentioned Colony of approximately 1,000 beds (extending to approximately 1,500).

Salary, £250 a year, rising by annual increments of £10 to £300 a year, plus a war addition at present £33 17s. 10d. a year in case of males, or £26 1s. 5d. in case of females. The appointment will be subject to the Asylums and Certified Institutions (Officers Pensions) Act, 1918, and the successful candidate will be required to pass a medical examination at the Colony.

Consideration will be given to applications for appointment on a temporary basis during the period of the war only from any persons desiring to be considered on that basis.

Applications, stating age, qualifications and experience, together with the names of two persons who would be willing to give references as to the applicant's personal and professional qualifications for the post, should be addressed to the Medical Superintendent, Leybourne Grange Colony, West Malling, Kent.

County Hall, W. L. PLATTS,  
Maidstone, Kent. Clerk to the County  
August 18th, 1943. Council.

### ST. HELIER COUNTY HOSPITAL

CARSHALTON

**ASSISTANT PHARMACIST.** Candidates must be M.P.S. or Ph.C. Commencing salary according to age and experience on grade £250+£10—£300 p.a. plus war bonus. Apply to Medical Superintendent.

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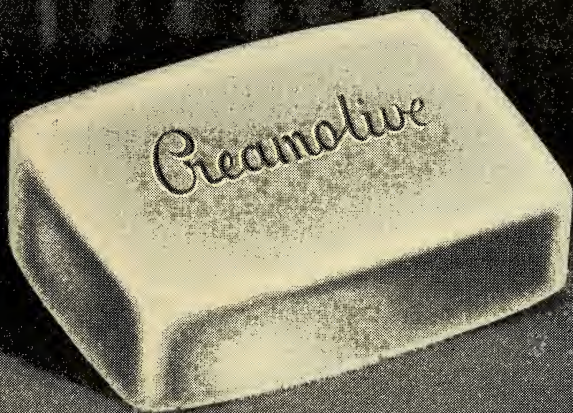
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**G**ROUP of three limited companies (Medical, Food and Cosmetic) seek the services of highly-experienced business man in Home and Export trade, with initiative and commercial acumen, to plan and extend their activities. Capital entertained but unessential. Personality will be decisive. Write in confidence to Box No. 442/281, London Office of this Paper.

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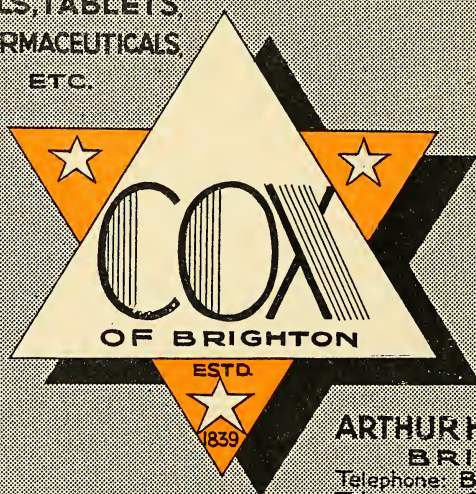
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